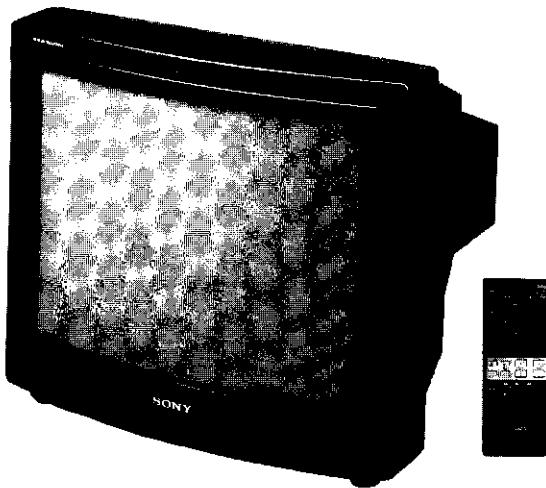


KV-X25TD
RM-673

SERVICE MANUAL

AEP Model
Chassis No. SCC-B14H-A



AE-1 CHASSIS

Note: The service manuals for RM-673
have been issued separately.

SPECIFICATIONS

Television system	CCIR B, G and H
Color system	PAL SECAM
Stereo system	German two carrier system
Channel coverage	VHF channels E2-E12 UHF channels E21-E69 Cable TV channels S1-S20 (a total of up to 30 preselected channels)
Picture tube	Trinitron tube 110-degree deflection Approx. 63.5cm (25 inches) (Approx. 59cm picture measured diagonally)
Inputs	21-pin connector : CENELEC standard
Outputs	21-pin connector : RGB input unconnected Headphones jack : stereo minijack External speaker terminals : 2-pin DIN Audio output jack : phonojack output level dependent upon TV setting
Power consumption	98Wh
Dimensions	Approx. 587×522×460mm (w/h/d)
Weight	Approx. 35.5kg
Supplied accessories	RM-673 Remote Commander (1) IEC designation R6 batteries (2)
Sound output	10W+10W (music power)

Design and specifications are subject to change without notice.



SONY®

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SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1

GENERAL

Note) The layout, etc., will be slightly different from the operating instructions packed with the units.

1-1. FIRST OF ALL

- 1 Connect the aerial to the T socket on the rear of the set.
This socket receives the standard 75-ohm aerial plug.

- 2 Plug in the set.

- 3 Tune in the available channels.

Use the buttons inside the front panel. To open the panel, press the center.

To tune in all channels automatically :

- 1 Press $\text{P} \text{ } \text{ } \text{ } \text{ } \text{ }$ (Preset)
- 2 Press PROGR to select the program position from which tuning is to start.
- 3 Press $\text{A} \text{ } \text{ } \text{ } \text{ } \text{ }$ (Auto programing).

The channels will be tuned in and memorized in consecutive positions, beginning from the program position selected in step 2.

When tuning has been completed, the set returns to the position where tuning began.

To tune in a channel in any desired program position.

(e. g. the position with the same number as the channel) :

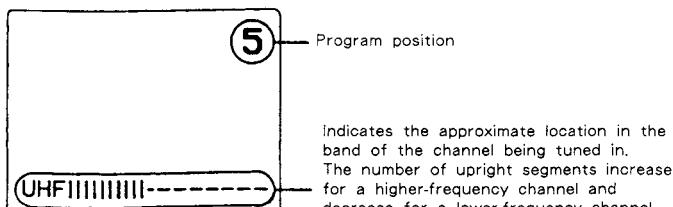
- 1 Press $\text{P} \text{ } \text{ } \text{ } \text{ } \text{ }$ (Preset).
- 2 Press PROGR to select the desired program position.
- 3 Press C (Clear).
- 4 Press $\text{S} \text{ } \text{ } \text{ } \text{ } \text{ }$ (Search) repeatedly until the desired channel appears.
- 5 Repeat steps 2 to 4 for all channels, if required.
- 6 Press $\text{P} \text{ } \text{ } \text{ } \text{ } \text{ }$ (Preset) again.

If the set is to be used in an area with poor reception, preset the program numbers between 1 and 19 for TV program use.

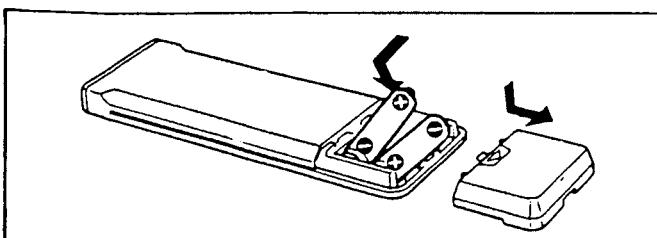
To have the unused program positions skipped when PROGR+ or PROGR- is pressed

- 1 Press $\text{P} \text{ } \text{ } \text{ } \text{ } \text{ }$ (Preset).
- 2 Press PROGR to select the unused position.
- 3 Press C (Clear).
- 4 Repeat steps 2 and 3 for all unused position.
- 5 Press $\text{P} \text{ } \text{ } \text{ } \text{ } \text{ }$ (Preset) again.

On-screen display while tuning

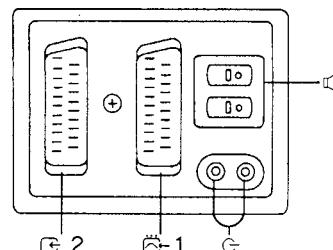


- 4 Insert two R6 batteries checking the correct polarity.



1-2. CONNECTING OTHER EQUIPMENT

connectors on rear set



L+G/S	Left external speaker terminal (2-pin DIN)	Connect to external speakers. The TV speakers will be disconnected.
R/D/D	Right external speaker terminal (2-pin DIN)	Speaker 8-16Ω.
R/D/D	Right audio output jack (Phono jack)	Connect to audio equipment. When only using the phono-jack, two loudspeaker plugs. (DIN 41529) should be inserted into the external speaker terminals so that the TV speaker output is switched off.
L/G/S	Left audio output jack (Phono jack)	
G-1	21-pin connector (CENELEC standard)	Connect to a VTR, micro computer, etc. The picture of the TV channel being received is always output.
G-2	21-pin connector (without RGB input)	The picture of G-2 can be watched while recording a TV program with the VTR connected to G-1 while monitoring the picture.
		Connected to a second VTR. The picture displayed on the screen is always output. The picture of G-2 can be recorded with the VTR connected to G-2 while monitoring the picture.

VTR operation using the supplied Commander

Remote operation of the VTR (8mm only) is limited to the features and functions of the VTR.

For further details, refer to the VTR manual.

When watching a video with the VTR connected to the connector, set the channel for the video to the program number 0 or any empty channel between 20 and 29.

Note

Move the VTR away from the TV, if the picture or sound is distorted.

21 Pin Connector (Pin 1, Pin 2)

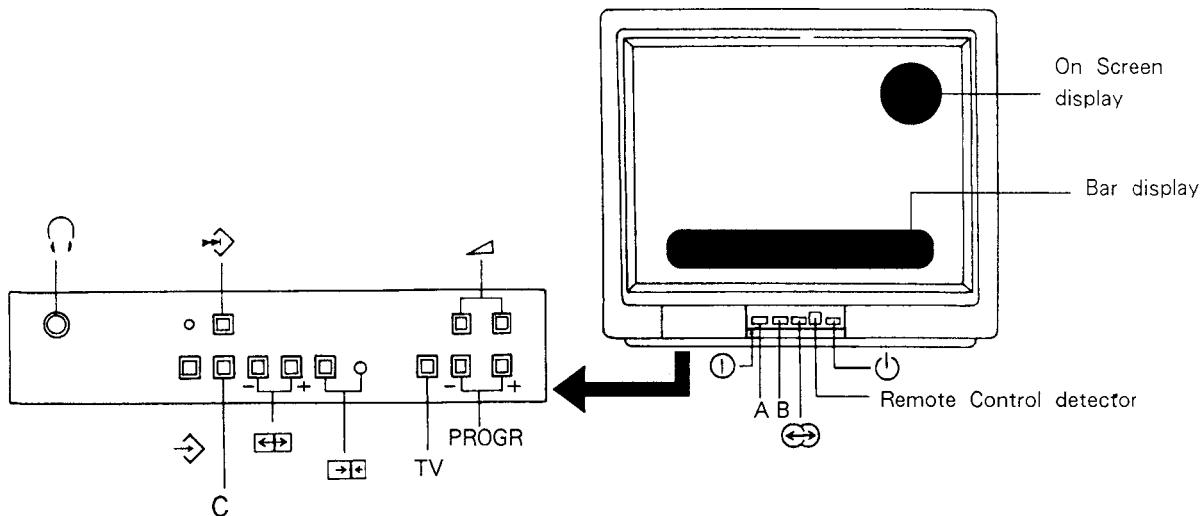
Pin No	1	2	Signal	Signal level
1	○	○	Audio output B (right)	Standard level : 0.5 Vrms Output impedance : Less than 1 k ohm*
2	○	○	Audio input B (right)	Standard level : 0.5 Vrms Input impedance : More than 10 k ohms*
3	○	○	Audio output A (left)	Standard level : 0.5 Vrms Output impedance : Less than 1 k ohm*
4	○	○	Ground (audio)	
5	○	○	Ground (blue)	
6	○	○	Audio input A (left)	Standard level : 0.5 Vrms Input impedance : More than 10 k ohms*
7	○	●	Blue input	0.7 V ±2 dB, 75 ohms, positive
8	○	○	Function select (AV control)	High state (9.5–12 V) : Part mode Low state (0–2 V) : TV mode Input impedance : More than 10 k ohms Input capacitance : Less than 2 nF
9	○	○	Ground (green)	
10	○	○	Open	
11	○	●	Green/Green with sync input	Green signal : 0.7 V ±2 dB, 75 ohms, positive Green with sync signal : 1 V ±2 dB, 75 ohms, positive
12	○	○	Open	
13	○	○	Ground (red)	
14	○	○	Ground (blanking)	
15	○	●	Red input	(Same as Pin 7)
16	○	●	Blanking input (Ys signal)	High state (1–3 V) Low state (0–0.4 V) Input impedance : 75 ohms
17	○	○	Ground (video output)	
18	○	○	Ground (video input)	
19	○	○	Video output	1 V ±2 dB, 75 ohms, positive Sync : 0.3 V (-3, ±10 dB)
20	○	○	Video input	1 V ±2 dB, 75 ohms, positive Sync : 0.3 V (-3, ±10 dB)
21	○	○	Common ground (plug, shield)	

○ connected

● unconnected (open)

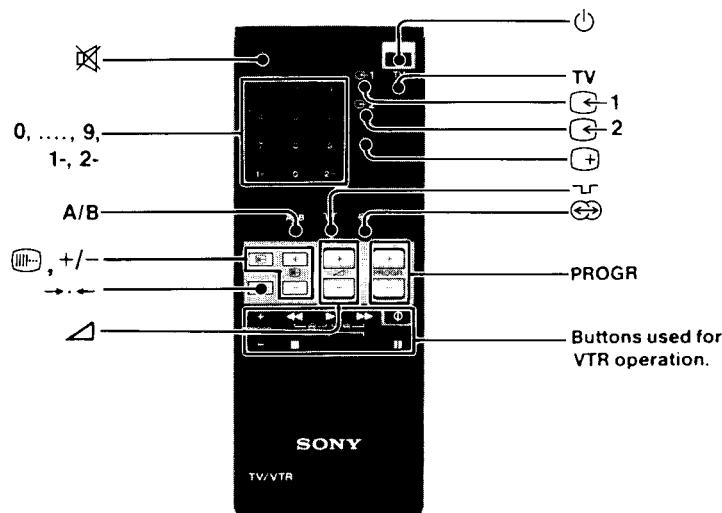
* at 20 Hz–20 kHz

1-3. FUNCTION OF CONTROLS



On the set	Inside the panel
On-screen display Indicates program numbers and \odot input modes.	\odot headphones jack (stereo minijack)
Bar display Indicates the level of \triangleleft volume, \odot color, \diamond brightness, \bullet contrast, \triangleright : bass, \flat treble and \triangleleft balance.	\boxplus SEARCH buttons Press to fine tune a weak channel manually, if required. When \boxplus (SEARCH) pressed, the \boxplus indicator (AFT) goes off and the AFT circuit does not function on the selected channel. To restore the AFT circuit on this channel, press \boxminus (AFT) so that the indicator lights up.
Note on \triangleleft function. When the volume is at the minimum setting the balance \triangleleft function will not operate.	\boxminus AFT button and indicator Normally, press \boxminus (AFT) so that the indicator lights up. The AFT circuit automatically fine tunes the channel for the best possible picture.
\circledcirc Power switch To cut off the mains power completely, press this switch. Depress the power switch fully to ensure correct operation of the set.	\triangleleft volume buttons
Note To ensure correct operation, push the switch in fully.	PROGR+, PROGR- program scan buttons
\odot standby indicator Lights up brightly when the set is in the standby mode.	
Note If the main power is turned off when in standby mode, the standby indicator will take 2 to 6 seconds to go off.	
\odot space sound indicator Lights up when \odot on the Remote Commander is pressed.	
A/B indicators One of them lights during bilingual broadcast. (Choose A or B with the Remote Commander.) Both light during stereo broadcast. In AV mode, A lights for left channel, B for right channel, or A and B for both channels.	
Remote control detector Point the Remote Commander towards this detector.	

FUNCTION OF CONTROLS



On the Remote Commander

To operate the Commander, point it toward the remote control detector.

🔇 mute button

0, ..., 9, 1-, 2- buttons

To tune into:
program 15, press 1- and 5
program 25, press 2- and 5

A/B button

Press to select the language in a bilingual broadcast, or to select the channel in AV mode.

🔊 +/- analog select buttons

Press 🔊 will appear on the screen. Adjust by pressing + or -. Press 🔊 again and adjust 🔊 (color), then 🔦 (brightness), 🔋 (bass), 🔋 (treble) and 🔎 (balance).

➡ • ← reset button

Press to reset color and contrast and brightness to factory-set levels.

⏻ standby button

Press to change to the standby mode. Use this button to turn off the set for short periods of time.
To turn on the set, press TV or the program number; there will be a slight delay before the picture is restored.

If the main power is turned off when in standby mode, the standby indicator will take 2 to 6 seconds to go off.

TV button

Press to change to the TV mode from the standby or 🔻 input modes.

⏻ 1 input button

Press to view the input picture coming in through the 🔻-1 connector.

" 🔻 1 " lights up on the screen.

Press TV or the program number to return to the TV mode.

⏻ 2 input button

Press to view the input picture coming in through the 🔻 2 connector.

" 🔻 2 " lights up on the screen.

Press TV or the program number to return to the TV mode.

📺 on-screen display button

Press to make the display appear on the screen.

Press again to make them disappear.

🔉 loudness button

Press to emphasize high and low notes.

ଓ space sound button

Press to obtain special acoustic effects.

🔈 volume buttons

PROGR program scan buttons

Note

Buttons not referred to on this page or next page do not operate.

1-4. VIEWING TELETEXT

To view the teletext service, use the Remote Commander. The buttons for teletext operation are indicated in green.

Operation

- 1 Select the TV channel for the desired teletext service.
- 2 Press TEXT / MIX (TEXT / MIX) to display the teletext service.
Once TEXT / MIX has been pressed, the TV channel cannot be changed.
- 3 Key in the three digits for the desired page using the number buttons. If an error is made, complete the three digit sequence by keying in any digit. Then re-enter the correct page number. The requested teletext page is displayed.

To return to the TV mode, press TV on the remote commander.

The teletext service can be displayed directly from the standby mode, by pressing TEXT / MIX .

To receive the teletext service of a different TV channel.

- 1 Press TV to return to the TV mode.
- 2 Select the desired TV channel.
- 3 Press TEXT / MIX

Note

To receive the teletext service accurately, keep TEXT / MIX inside the panel switched on during teletext operation.

To display the index page.

Press INDEX .

If the necessary signal is not being broadcast, page 100 is displayed.

To rapidly access the next or preceding page press $\text{PAGE} +$ or $\text{PAGE} -$.

To superimpose the teletext display on the TV picture.

Press TEXT / MIX twice from TV mode.

Press again to return to the TEXT display.

To suppress the teletext display so that the TV picture is displayed.

Press TEXT CL .

This button can be operated from both the TEXT and MIX displays.

To prevent a teletext page (subpage) from being updated /changed.

Press HOLD . The HOLD symbol appears at the top of the screen.



To resume normal teletext reception, press TEXT / MIX .

To enlarge the teletext display.

Press ENLARGE .

Press once to enlarge the upper half of the display ; press again to enlarge the lower half of the display ; press again to return to the normal display.

To reveal concealed information such as the answers to a quiz

Press REVEAL .

Press again to conceal the answers.

To adjust the contrast of the teletext display.

When in teletext mode, adjust by using the + or - keys adjacent to the REVEAL key.

To watch the TV program while waiting for a requested page to be displayed.

1 Request new page.

2 Press TP ON to watch the TV program.

The requested page number appears at the top left of the screen.

When the requested page has been captured, the page number is displayed in the top left hand corner of the screen.

P101

To view this page, press TEXT / MIX .

To have a requested page displayed at a predetermined time.

1 Request a time coded page (e. g. alarm page).

2 Press TP ON .

"T****" will appear at the bottom of the screen.

T****

3 Enter your request time with the number buttons, using four digits. For example, 07 : 30.

T0730

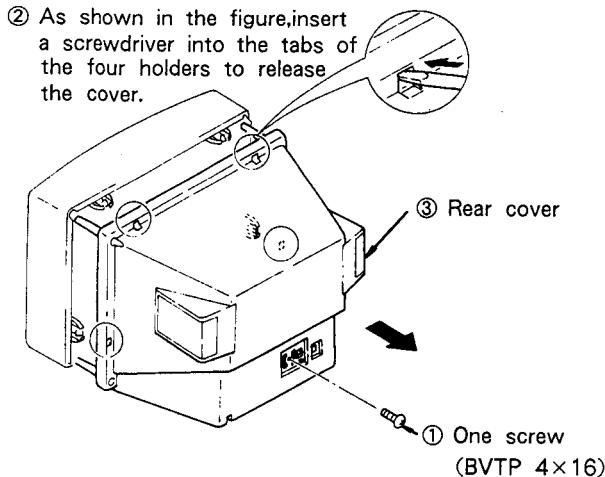
To watch the TV program until the requested time, press TP ON . At the requested time, the page number will be displayed at the bottom of the screen.

To view this page, press TEXT / MIX .

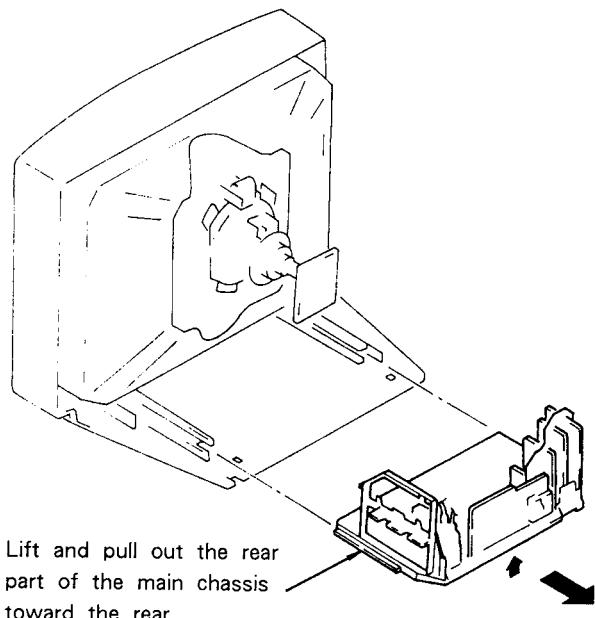
To cancel the request, first ensure that the teletext page is displayed, then press TP OFF .

SECTION 2 DISASSEMBLY

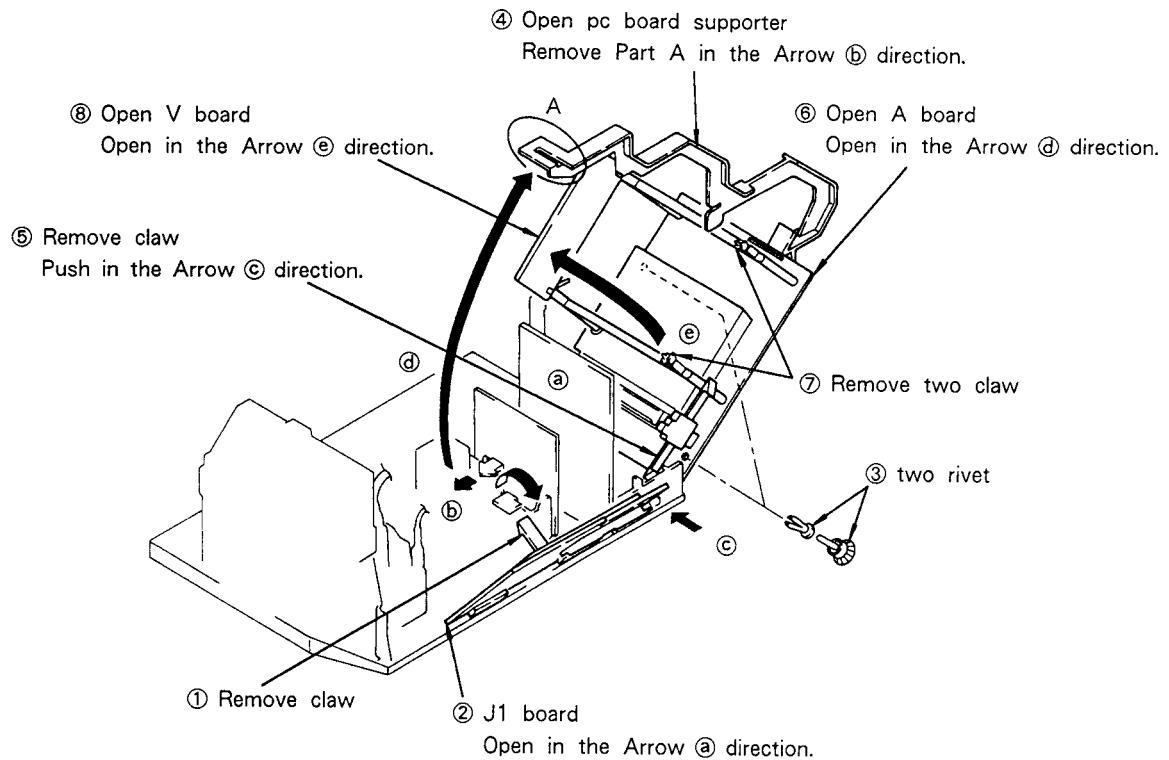
2-1. REAR COVER REMOVAL



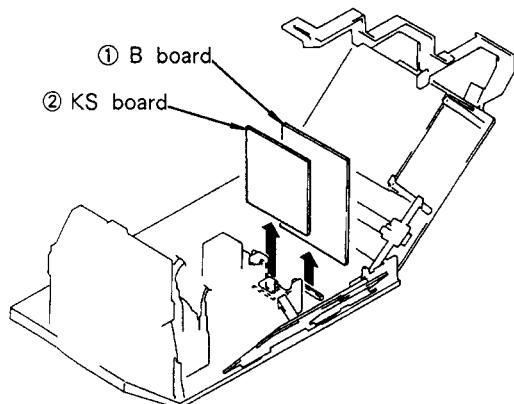
2-2. CHASSIS ASSY REMOVAL



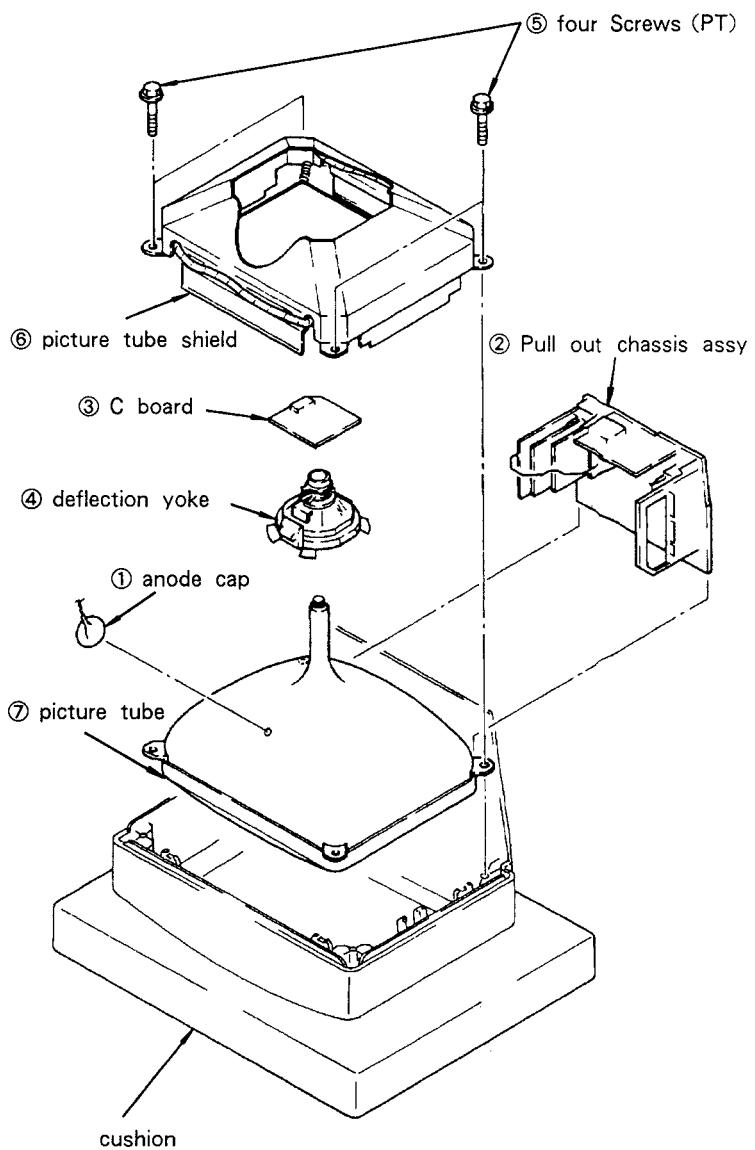
2-3. J1,A, AND V BOARD REMOVAL



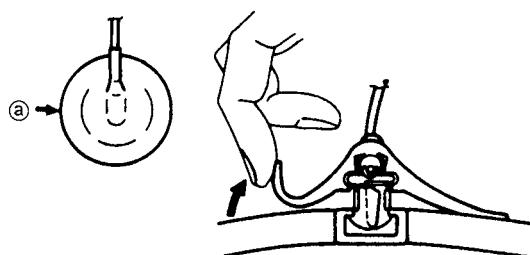
2-4. KS AND B BOARDS REMOVAL



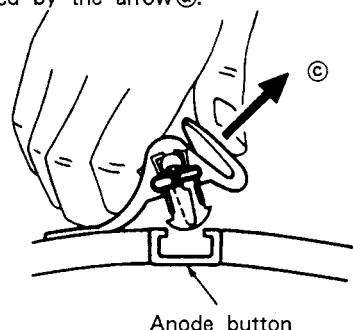
2-5. PICTURE TUBE REMOVAL



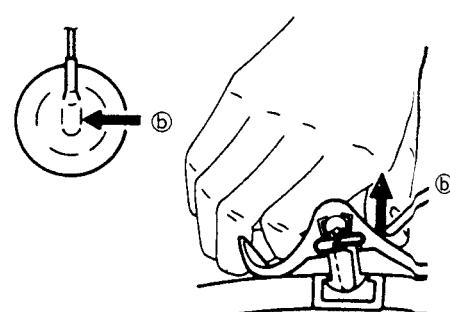
● Removing Procedures



① Turn up one side of the rubber cap in the direction indicated by the arrow ②.



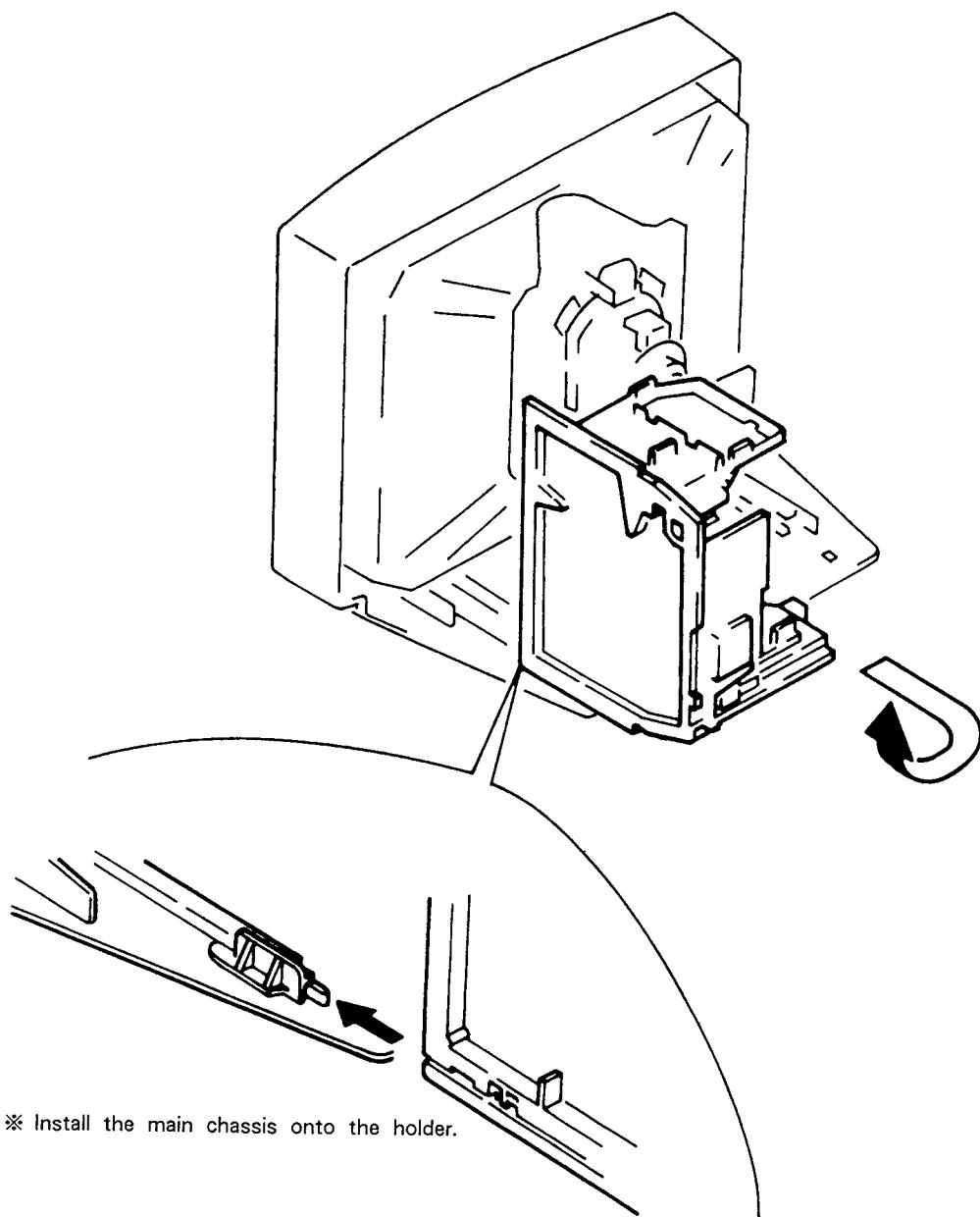
Anode button



② Using a thumb,pull up the rubber cap firmly in the direction indicated by the arrow ⑥.

③ When one side of the rubber cap is separated from the anode button,the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⑦.

2-6. SERVICE POSITION



SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted :

CONTRAST control 80% (or Normal by Commander)
 BRIGHTNESS control 50%

Perform the adjustments in order as follows :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color Bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

3-1. BEAM LANDING

1. Input a raster signal with the pattern generator.
 CONTRAST } normal
 BRIGHTNESS }
2. Turn the raster signal of the pattern generator to red.
3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides, evenly.
 (Fig. 3-1 ~ 3-3)
4. Move the deflection yoke forward, and adjust so that the entire screen becomes red.(Fig. 3-1)
5. Switch over the raster signal to blue and green and confirm the condition.
6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
7. When landing at the corners is not right, adjust by using the magnet.(Fig. 3-4)

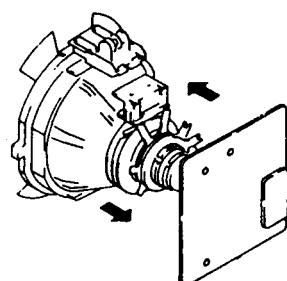


Fig.3-1

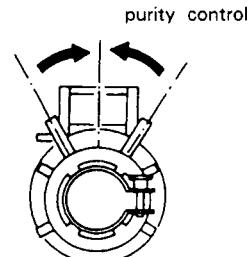


Fig.3-2

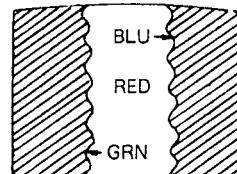


Fig.3-3

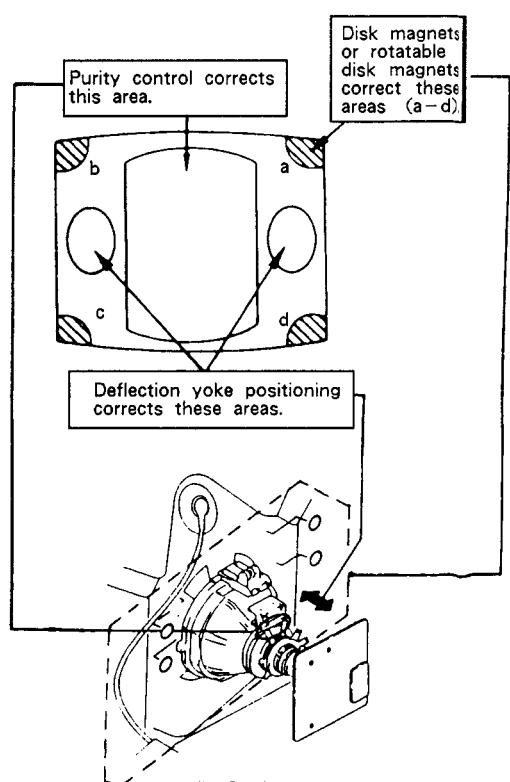


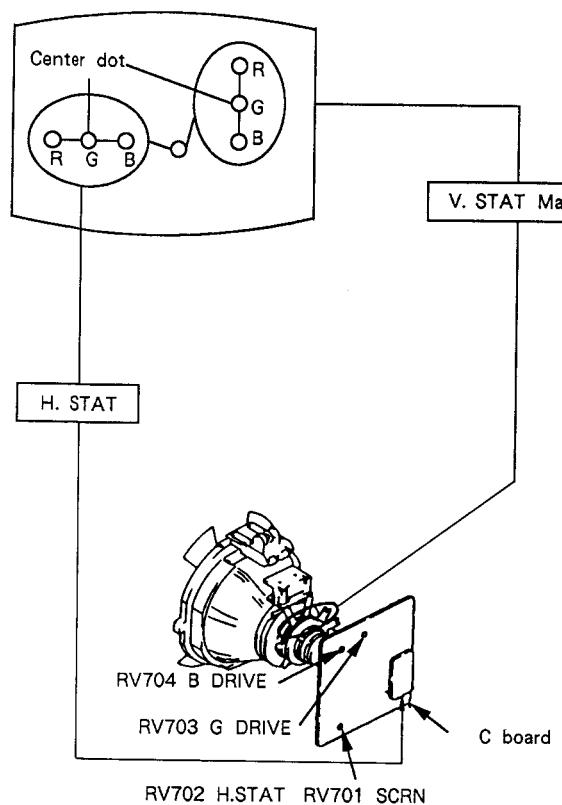
Fig.3-4

3-2. CONVERGENCE

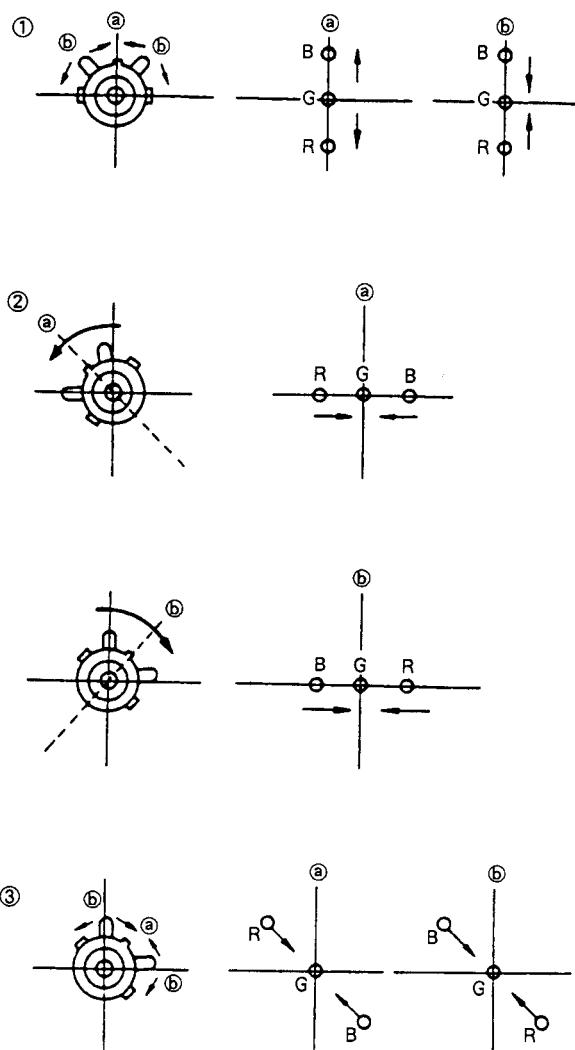
Preparation :

- Before starting, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

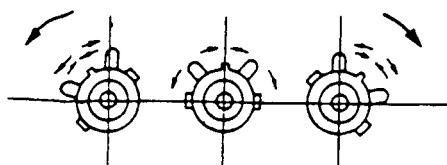
(1) Horizontal and Vertical Static Convergence



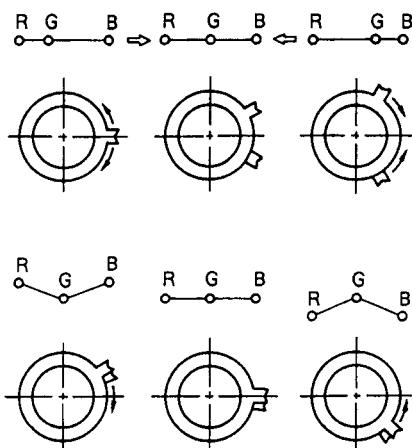
4. When the V. STAT magnet is moved in the direction of arrow ② and ⑤, red, green and blue dots move as shown below.



1. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen.(Horizontal movement)
2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen.(Vertical movement)
3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below. (In this case, H. STAT VR and V. STAT magnet effect each other.)
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.

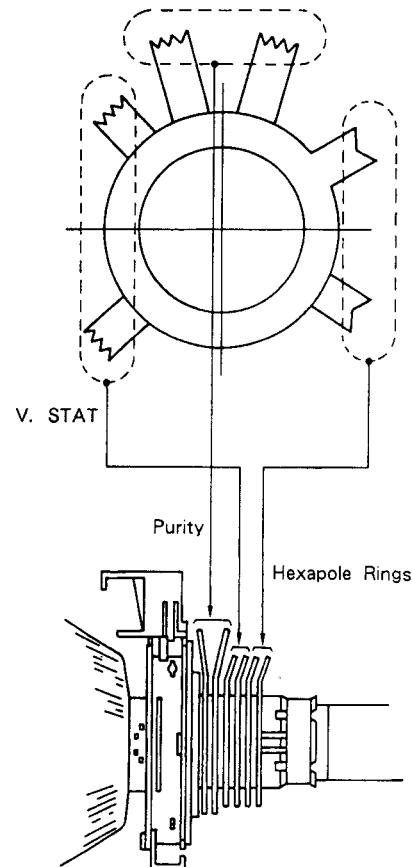


● Operation of Hexapole Ringed Magnet



The respective dot operations resulting from the operation of each magnet are not completely independent, so be sure to perform adjustment while tracking.

Use the H. STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

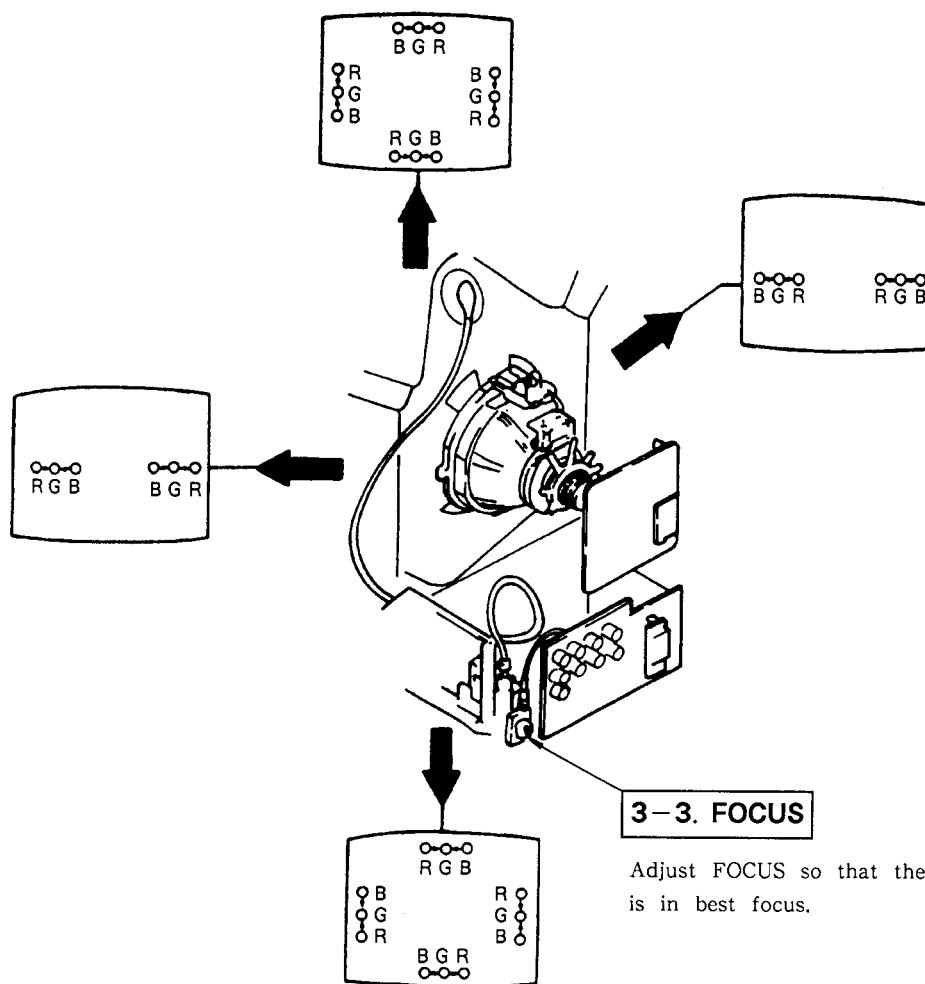


(3) Dynamic Convergence Adjustment

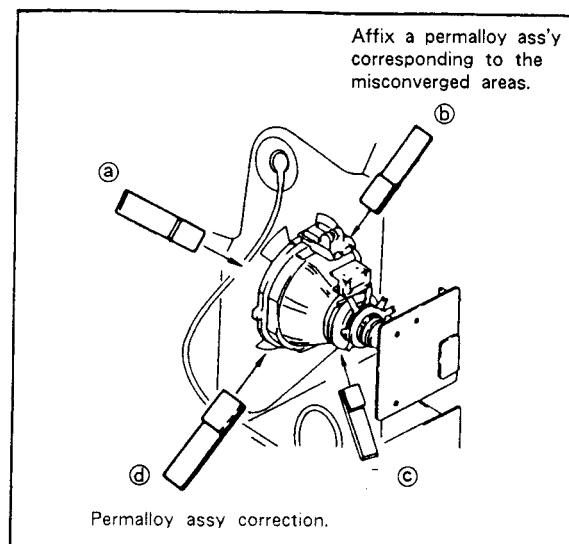
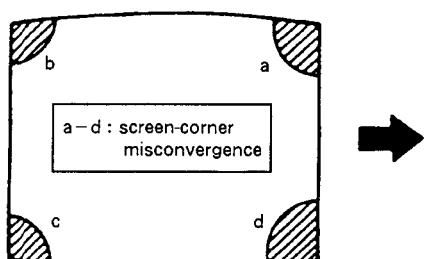
Preparation :

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment..
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



(4) Screen - corner Convergence



3-4. WHITE BALANCE

(Screen (G2) Setting)

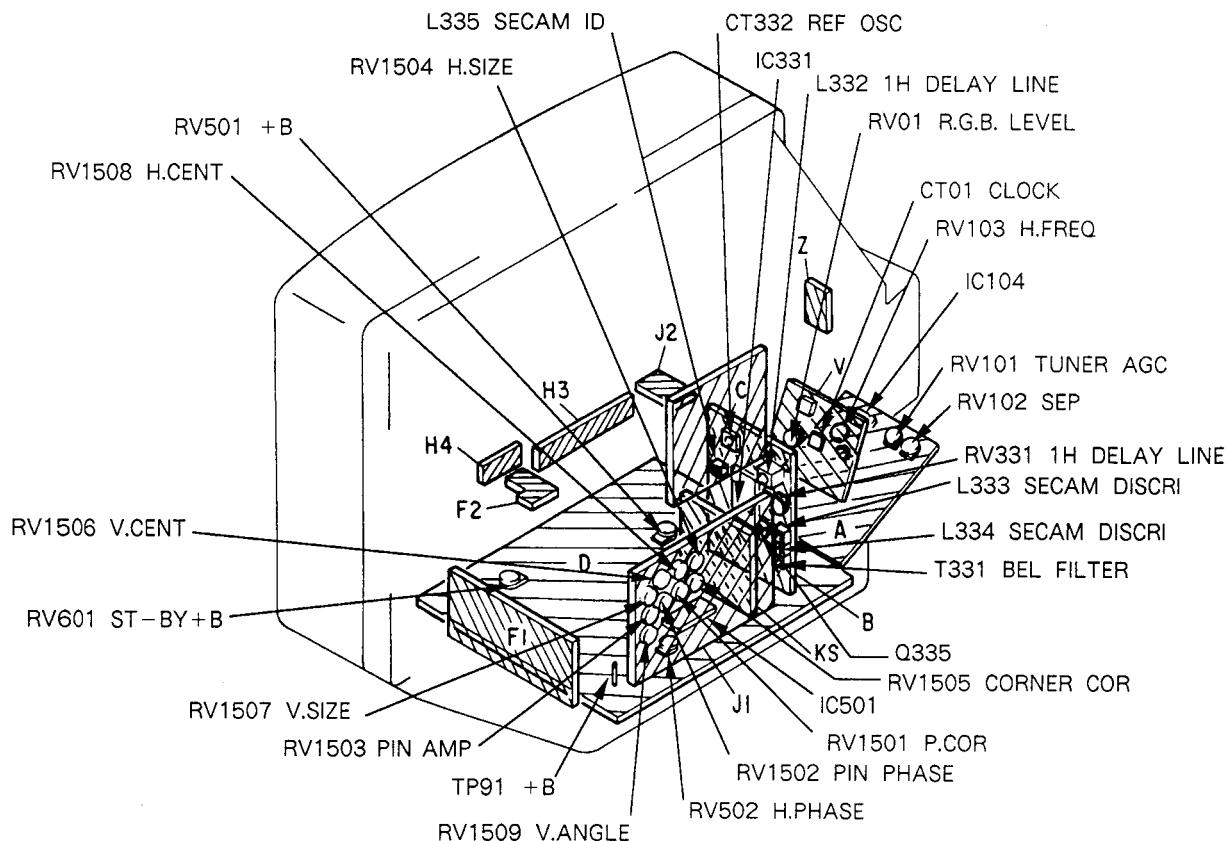
1. Input dot signals from the pattern generator.
2. Set the picture BRIGHTNESS control to the minimum level.
3. Apply 170 V dc to the cathodes of R, G, and B from an external power source.
4. While watching the picture, adjust the G2 volume (RV701) immediately before the fly-back line disappears.

(White Balance Adjustment)

1. Input all-white signals from the pattern generator.
2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
3. Adjust the white balance using RV704 (B DRIVE) and RV703 (G DRIVE).

In the following adjustments, the CONTRAST COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

SECTION 4 CIRCUIT ADJUSTMENTS



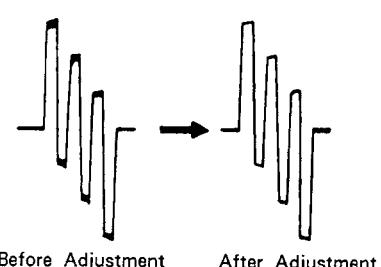
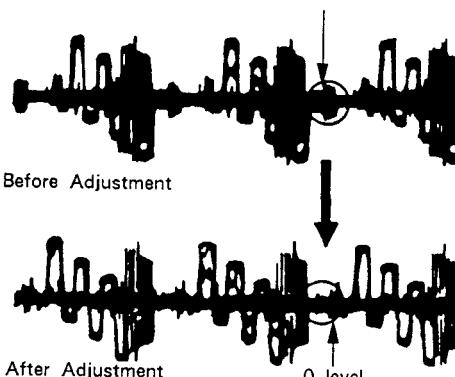
4-1. B BOARD ADJUSTMENTS

REF OSC Adjustment (CT332)

1. Input a PAL COLOR BAR pattern.
2. Short circuit between pin ⑪ of IC331 and ground.
3. Adjust CT332 to obtain color synchronization.
4. Remove a jumper wire from IC331.

4. Input a PAL TEST COLOR BAR pattern.
5. Rotate the RV331 control and adjust till the ANT PAL of the waveform matches the 0 level.

This part matches the 0 level.



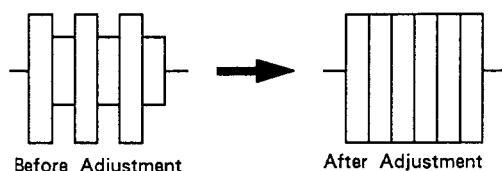
6. L332 and RV331 affect each other. Repeat till the conditions of both meet.

SECAM ID Adjustment (L335)

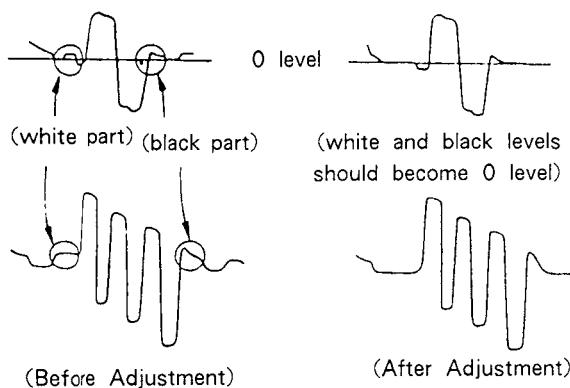
1. Input SECAM COLOR BAR signal.
2. Connect a Digital Multi - meter at pin ⑪ of IC331.
3. Adjust L335 so that the indicator goes up to the maximum.

BELL FILTER Adjustment (T331)

1. Input SECAM COLOR BAR pattern.
2. Connect an oscilloscope to the emitter of Q335.
3. Adjust T331 so that the waveform becomes flat.

**SECAM DISCRI Adjustment (L333, L334)**

1. Input SECAM COLOR BAR pattern.
2. Connect an oscilloscope at pin ① of IC331.
3. Adjust L333 so that white and black part of the waveform of pin ① becomes 0 level.
4. Connect an oscilloscope at pin ③ of IC331.
5. Adjust L334 so that white and black part of the waveform of pin ③ becomes 0 level.

**4-2. D BOARD ADJUSTMENTS****+B Adjustment (RV501)**

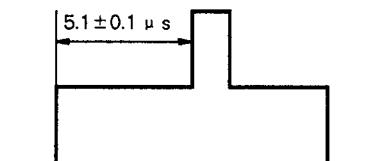
1. Connect a Digital Multimeter to TP91.
2. Adjust RV501 so that the voltage becomes 135 ± 0.2 V.

ST-BY +B Adjustment (RV601)

1. Set up \odot standby (Remote Commander) mode.
2. Connect the digital multimeter to TP91.
3. Adjust RV601 so that the voltage becomes 135 ± 3 V.
4. Release the \odot standby (Remote Commander) mode.

H. PHASE Adjustment (RV502)

1. Input the PAL TEST COLOR BAR pattern.
2. Set the CONTRAST and BRIGHTNESS controls to the standard positions.
3. Set RV1508 (H. CENT) to the mechanical center position.
4. Connect an oscilloscope to pin ⑪ (SPC OUT) of IC501.
5. Rotate RV502 and adjust Block T to $5.1 \pm 0.1 \mu s$.

**4-3. A BOARD ADJUSTMENTS****TUNER AGC Adjustment (RV101)**

1. Tune in an off-air signal.
2. Adjust RV101 so that snow-noise and cross-modulation just disappear from the picture.

STEREO SEPARATION Adjustment (RV102)

1. Input stereo signal (L-CH 1kHz, R-CH 400Hz).
2. Check the stereo indicator.
3. Connect an oscilloscope to the pin ① (L) of CNA11 through band pass filter of 1kHz.
4. Adjust RV102 so that 1kHz voltage goes down to the minimum.

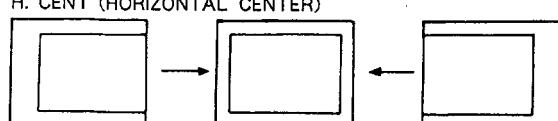
H. FREQ. Adjustment (RV103)

1. Input PAL COLOR pattern.
2. Short circuit between pin ⑫ of IC104 and ground.
3. Connect a frequency counter to the pin ⑥ of IC104 through a probe of 10 : 1.
4. Adjust RV103 so that H. frequency becomes 15.625 ± 50 Hz.

4-4. J1 BOARD ADJUSTMENTS

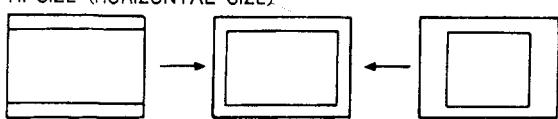
RV1508

H. CENT (HORIZONTAL CENTER)



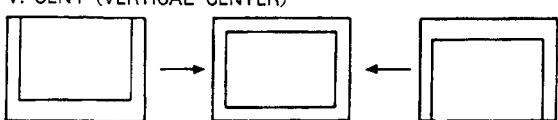
RV1504

H. SIZE (HORIZONTAL SIZE)



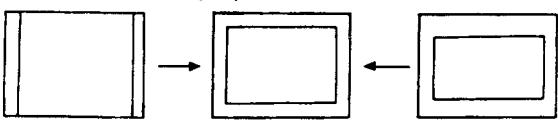
RV1506

V. CENT (VERTICAL CENTER)



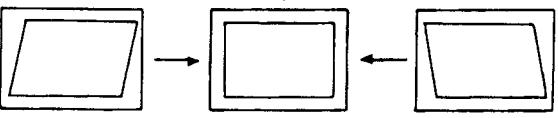
RV1507

V. SIZE (VERTICAL SIZE)



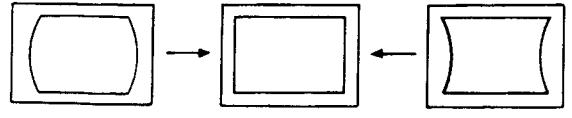
RV1509

V. ANGLE (VERTICAL ANGLE)



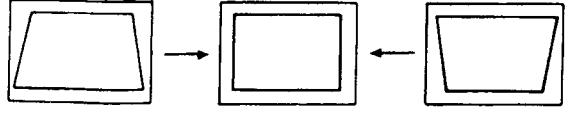
RV1503

PIN AMP (PINCUSHION AMPLIFIER)



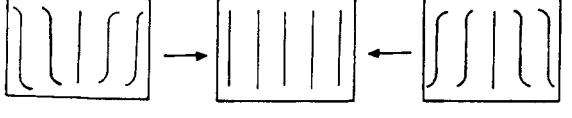
RV1502

PIN PHASE (PINCUSHION PHASE)



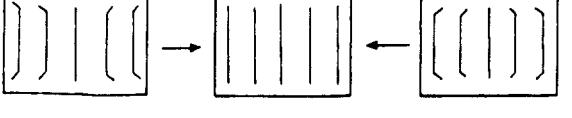
RV1501

P. COR (PINCUSHION CORRECT)



RV1505

CORNER. COR (CORNER CORRECT)



4-5. V BOARD ADJUSTMENTS

Clock Adjustment (CT01)

1. Disconnect the V-1 connector.
2. Set up the TELE TEXT mode.
3. Adjust CT01 to stop pictures from scrolling.

RGB Level Adjustment (RV01)

1. Set PICTURE to maximum.
2. Adjust RV01 till the RGB output becomes 0.65V.

4-6. SUB ADJUSTMENTS

SUB BRIGHTNESS Adjustment

1. Receive and display a TEST COLOR BAR pattern.
2. Push $\rightarrow \cdot \leftarrow$ on the remote commander to invoke the normal state.
3. Turn off the power supply.
4. Turn on the power supply while pushing the SUB button (S1414). (SUB mode is invoked.)
5. Reduce the $\textcircled{1}$ CONTRAST to the minimum level.
6. Adjust the $\textcircled{2}$ BRIGHTNESS control until the 0 IRE of the gray scale becomes completely cut off, and the 20 IRE becomes barely luminous.
7. Push the AFT button.(SUB mode is cleared)

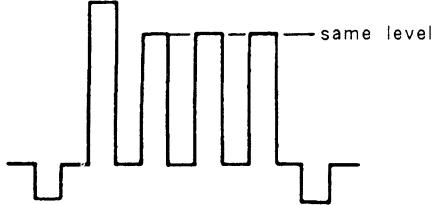
Where no TEST COLOR BAR pattern is available,

1. Display a COLOR BAR pattern.
2. Push $\rightarrow \cdot \leftarrow$ on the remote commander to invoke the normal state.
- Set the $\textcircled{1}$ COLOR to normal mode.
Steps 3~5 are the same as above.
6. 20 IRE is close to blue, so adjust the $\textcircled{2}$ BRIGHTNESS control till blue is faintly luminous.
7. Same as Step 7 above.
8. Push $\rightarrow \cdot \leftarrow$ on the remote commander to invoke the normal state.
- * When Step 4 is executed correctly, S (SUB mode) is displayed at the upper right of the display. As S is displayed only for 30 seconds, perform the adjustment within 30 seconds, or repeat from Step 4.

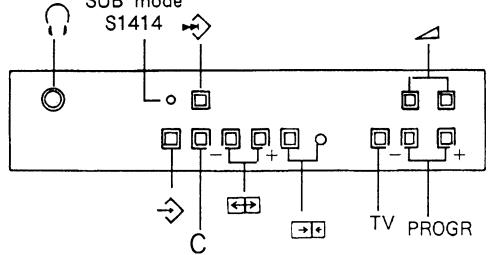
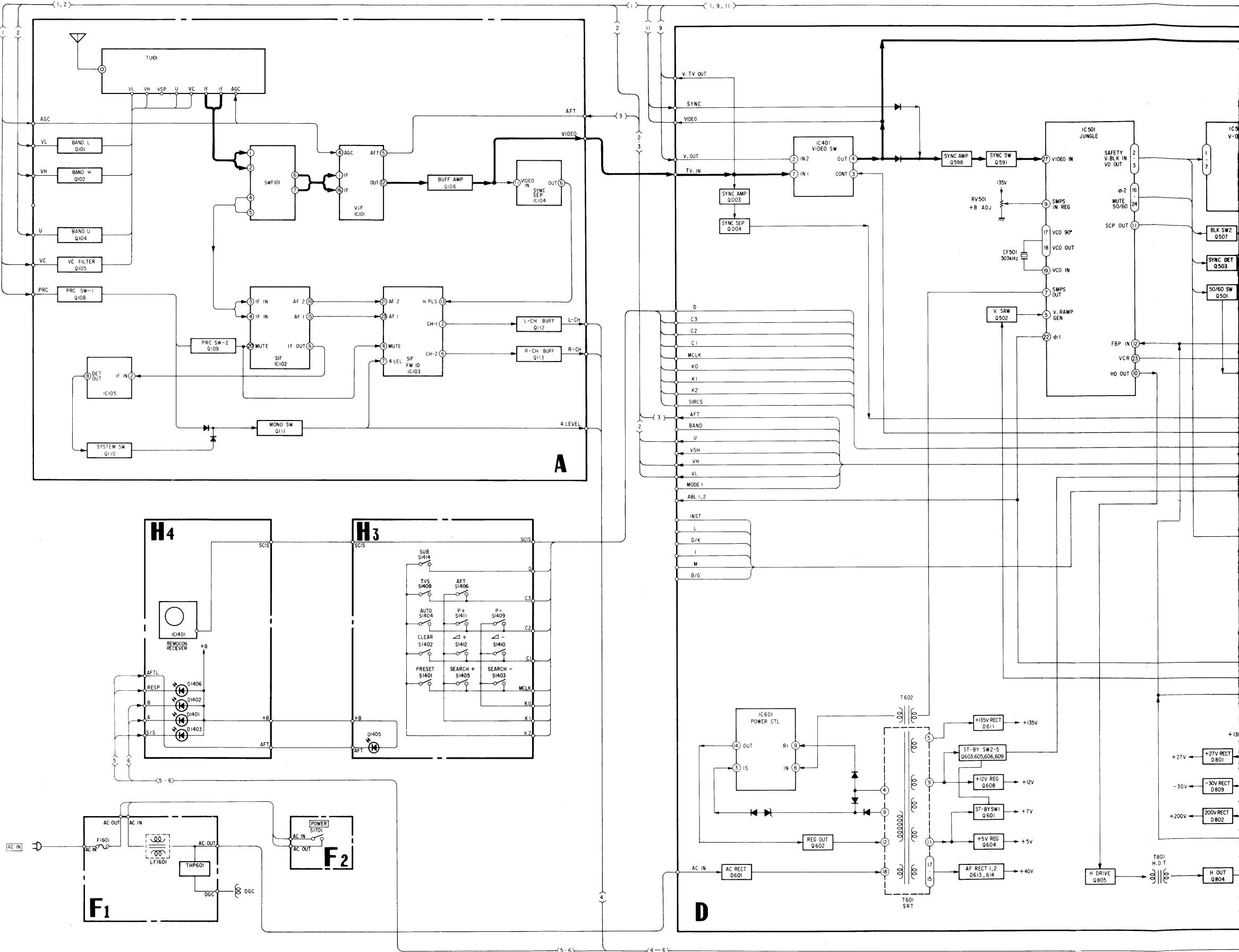
SECTION 5 DIAGRAMS

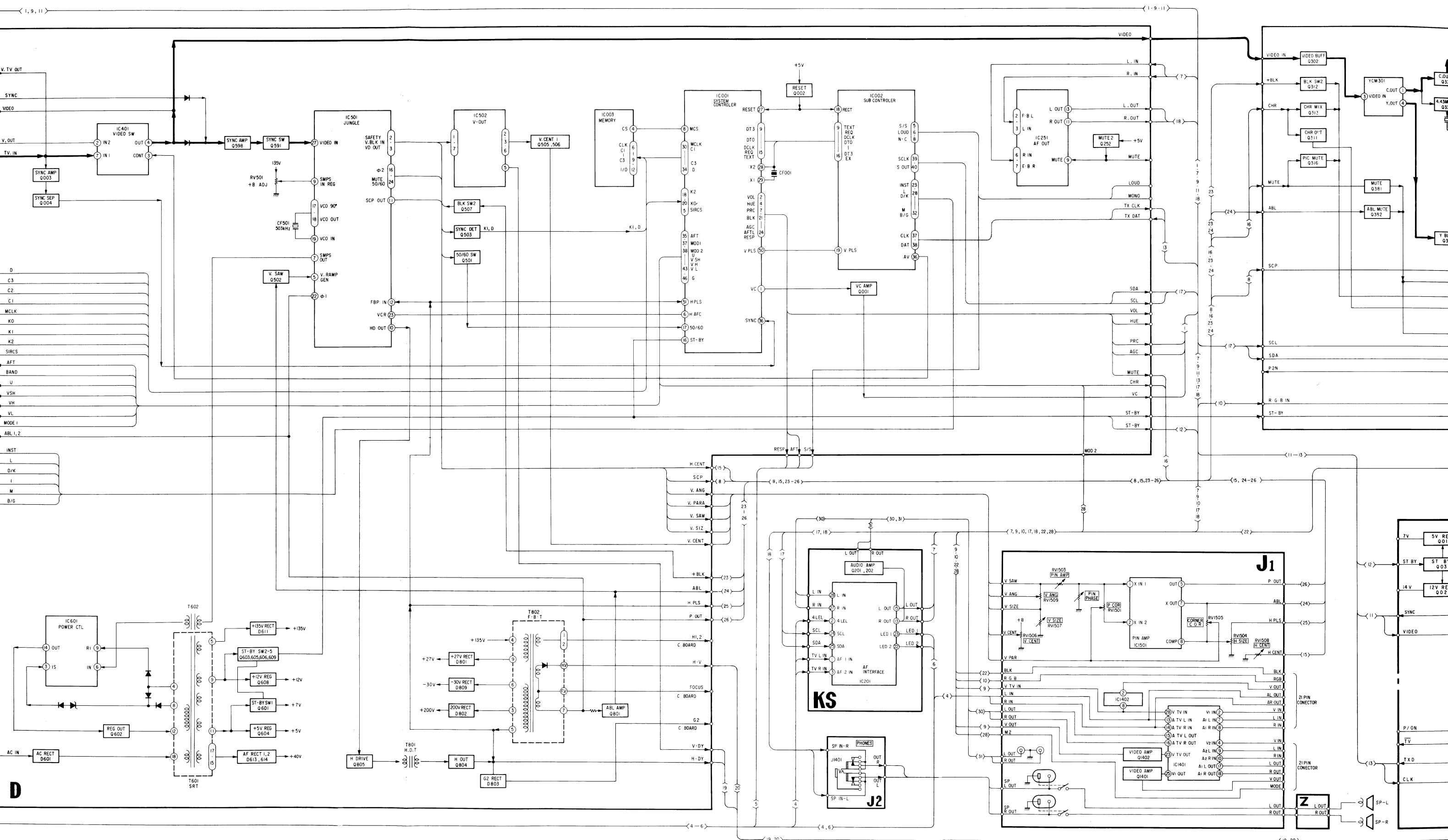
SUB COLOR Adjustment

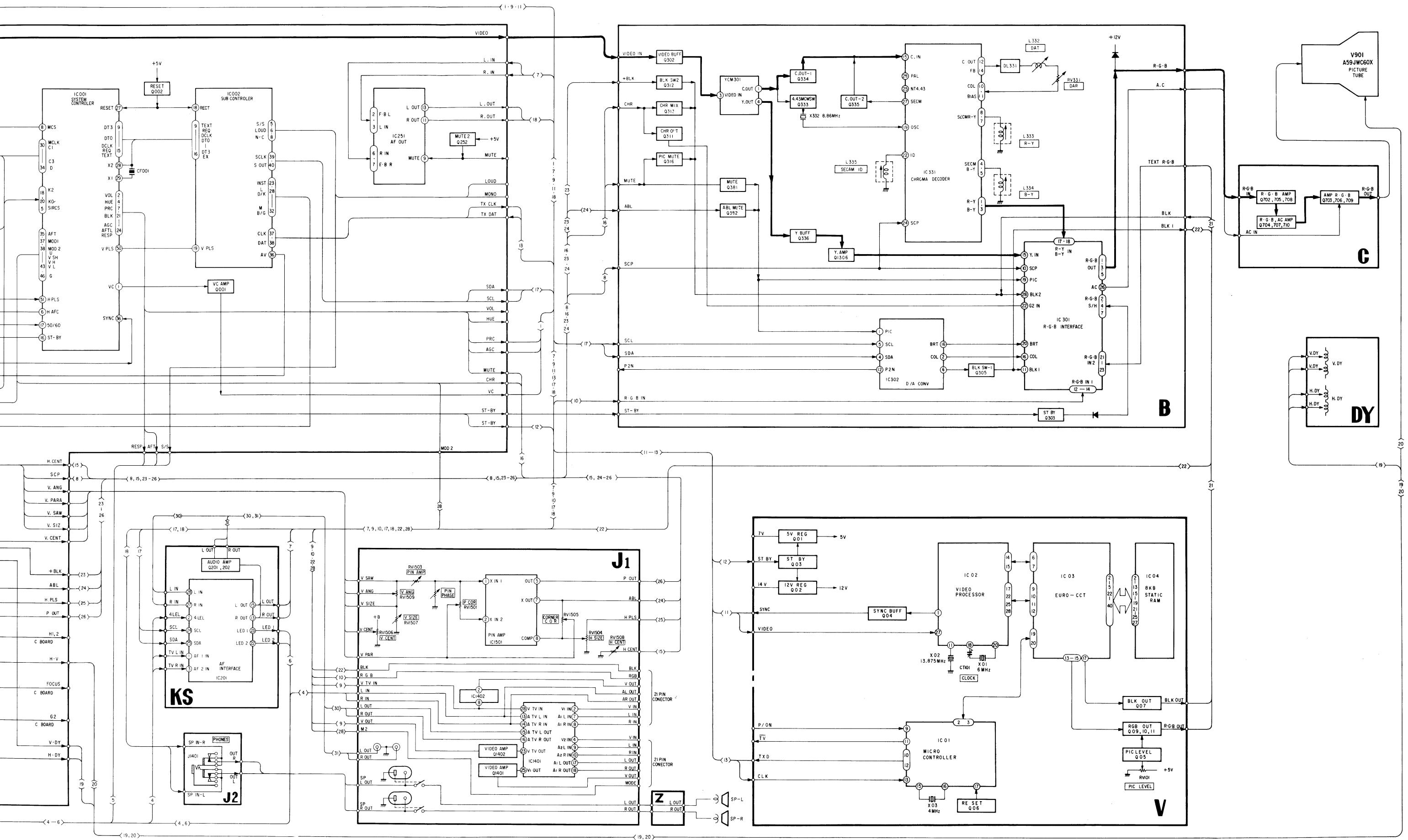
1. Display a COLOR BAR pattern.
2. Push $\rightarrow \leftarrow$ on the remote commander to invoke the normal state.
3. Turn off the power supply.
4. Turn on the power supply while pushing the SUB button (S1414). (SUB mode is invoked.)
5. Adjust the COLOR control until the B out (pin ② of CNC72 connector on C board) waveform becomes as shown below.
6. Push the AFT button. (SUB mode is cleared.)



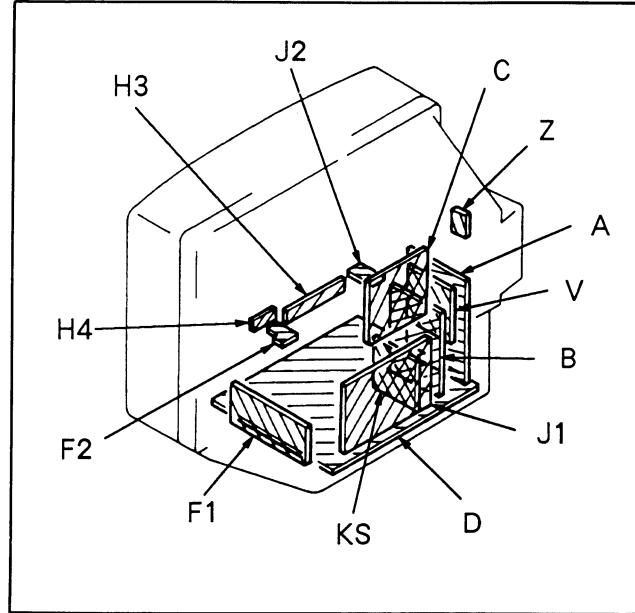
* When Step 4 is executed correctly, S (SUB mode) is displayed at the upper right of the display. As S (SUB mode) is displayed only for 30 seconds, perform the adjustment with 30 seconds, or repeat from Step 4.


5-1. BLOCK DIAGRAM






5-2. CIRCUIT BOARDS LOCATION



Note :

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power is as follows.

Pitch : 5mm
Rating electrical power : 1/4W

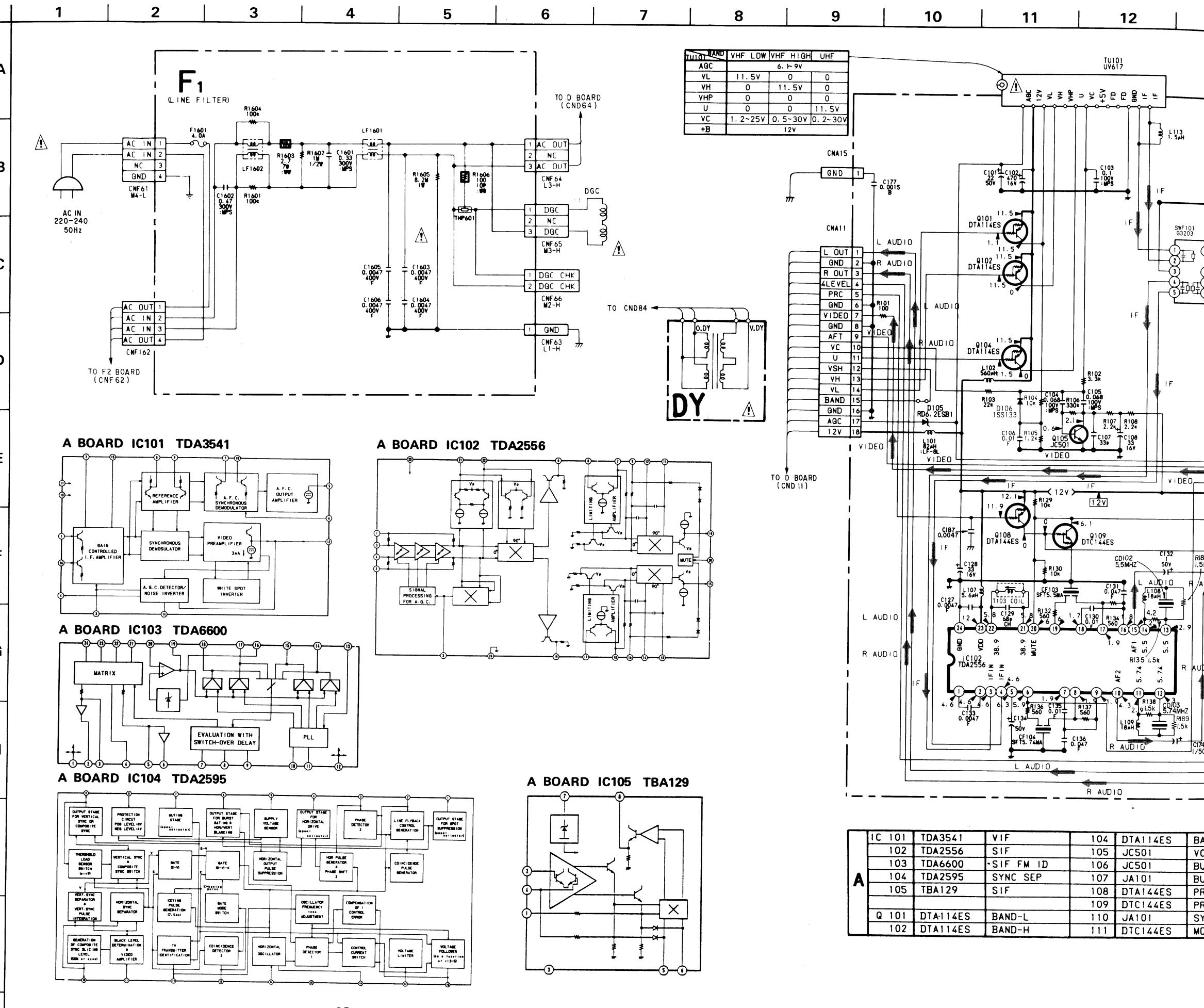
- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a $10\text{M}\Omega$ digital multimeter.
- Readings are taken with a PAL color-bar signal input.
- : adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
- : B+ lead
- : B- lead
- : signal path.

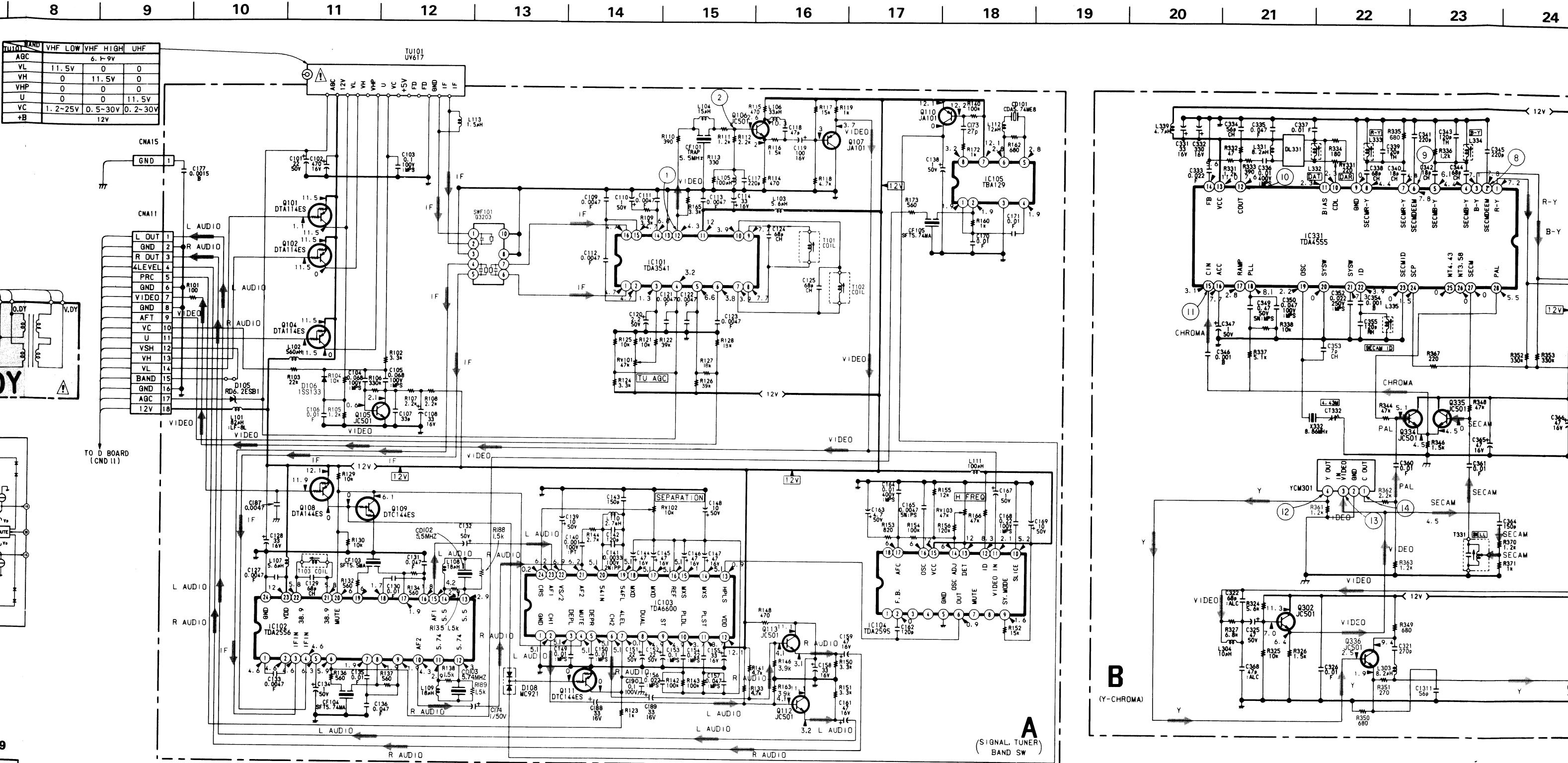
Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE WIREWOUND
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ABL	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

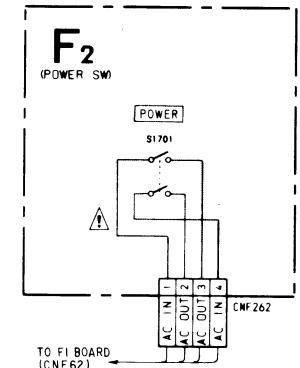
5-3. SCHEMATIC DIAGRAM (1)





A

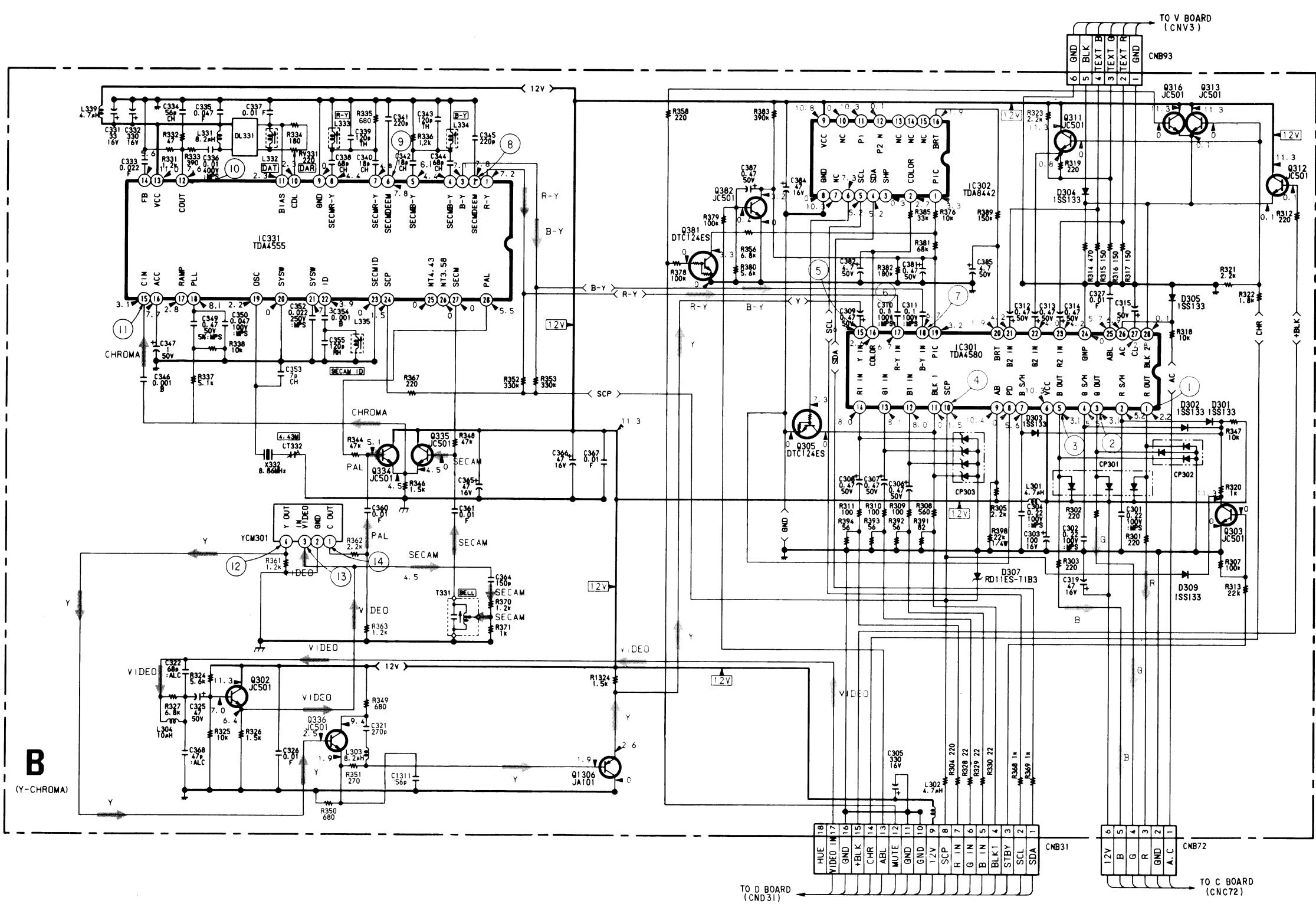
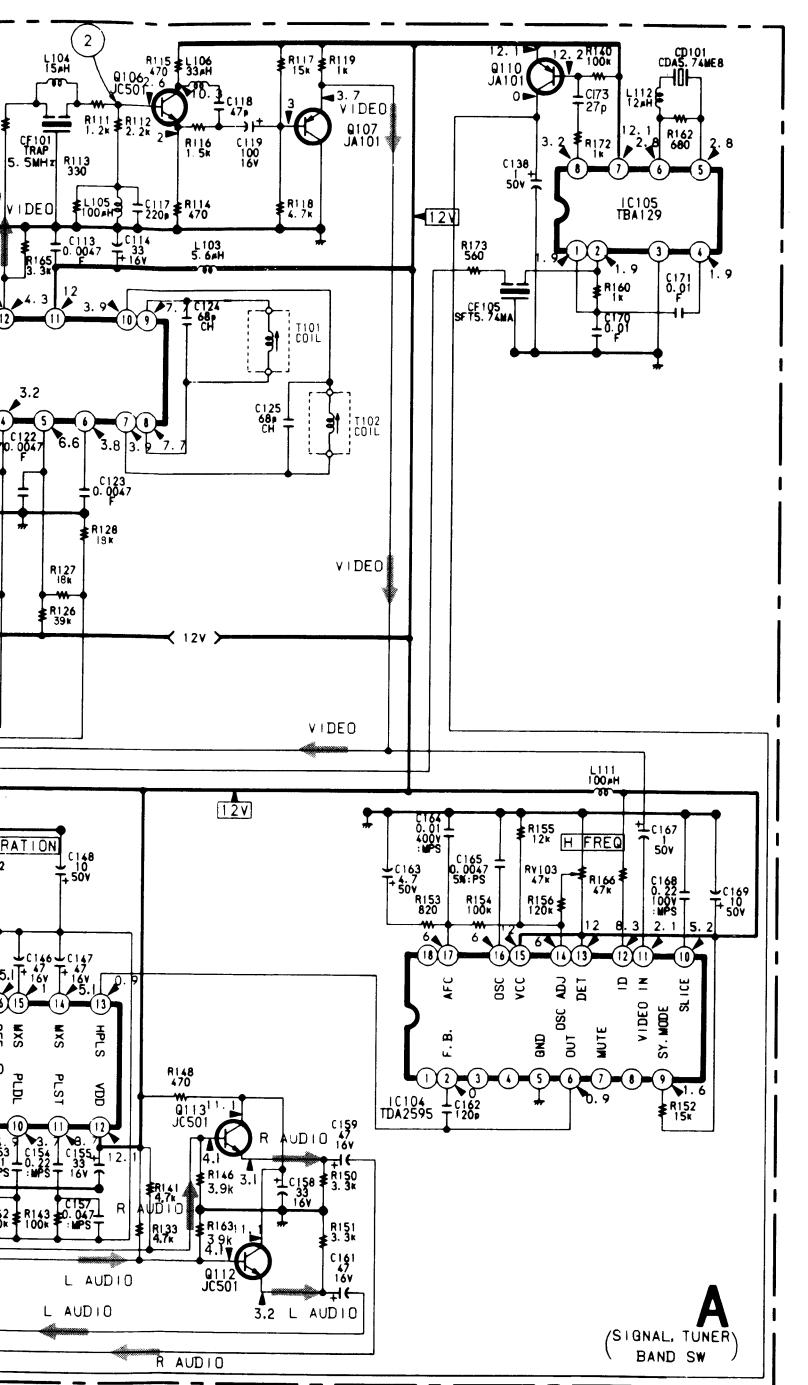
IC 101	TDA3541	VIF	104	DTA114ES	BAND U	112	JC501	AF BUFF L
102	TDA2556	SIF	105	JC501	VC FILTER	113	JC501	AF BUFF R
103	TDA6600	-SIF FM ID	106	JC501	BUFF AMP			
104	TDA2595	SYNC SEP	107	JA101	BUFF AMP	D 105	RD6.2ESB1	SEARCH AGC
105	TBA129	SIF	108	DTA144ES	PRC SW	106	ISS133	VC STOP
Q 101	DTA114ES	BAND-L	110	JA101	SYSTEM SW	108	MC921	SYSTEM SW
102	DTA114ES	BAND-H	111	DTC144ES	MONO SW			



B

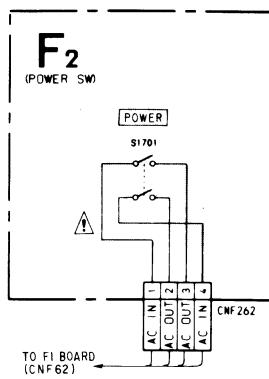
IC 301	TDA4580	RGB INTERFACE	313	JC501	CHR MIX
302	TDA8442	D/A CONVERTOR	316	JC501	PIC MUTE
331	TDA4555	CHROMA DECODER	334	JC501	CHROMA OUT-1
Q 302	JC501	VIDEO BUFF	336	JC501	VIDEO AMP
303	JC501	ST BY SW	381	DTC124ES	MUTE
305	DTC124ES	BLK SW-1	382	JC501	ABL MUTE
311	JC501	CHR OUT	1306	JA101	Y BUFF
312	JC501	BLK SW-2			

15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



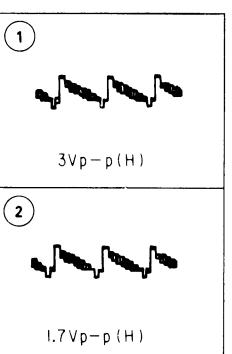
F₂ (POWER SW)	IC 301 TDA4580	RGB INTERFACE	313 JC501	CHR MIX	D 301 ISS133	ST BY MUTE-1
	302 TDA8442	D/A CONVERTOR	316 JC501	PIC MUTE	302 ISS133	ST BY MUTE-2
	331 TDA4555	CHROMA DECODER	334 JC501	CHROMA OUT-1	303 ISS133	ST BY MUTE-3
			335 JC501	CHROMA OUT-2	304 ISS133	BLK SW
	Q 302 JC501	VIDEO BUFF	336 JC501	VIDEO AMP	305 ISS133	PROTECT
	303 JC501	ST BY SW	381 DTC124ES	MUTE	307 RD11ES-B3	PROTECT
	305 DTC124ES	BLK SW-1	382 JC501	ABL MUTE	309 ISS133	SPOT PROTECT
	311 JC501	CHR OUT	1306 JA101	Y BUFF		
	312 JC501	BLK SW-2				

AF BUFF L
AF BUFF R
SEARCH AGC
VC STOP
SYSTEM SW

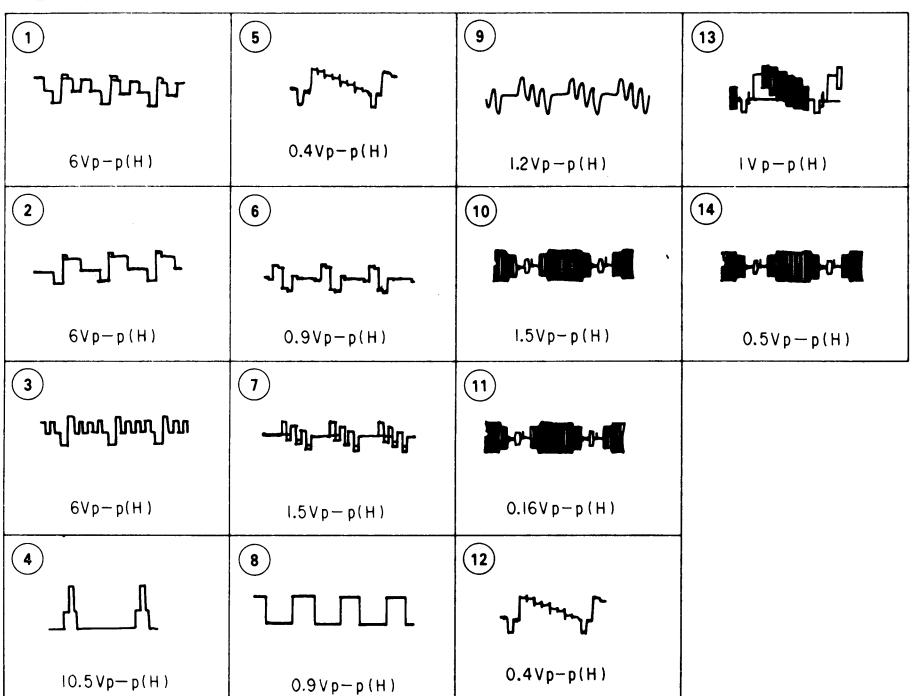


1 2 3 4 5 6 7 8 9 10 11

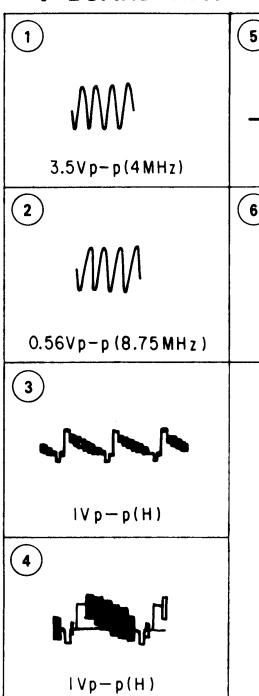
• A BOARD WAVEFORM



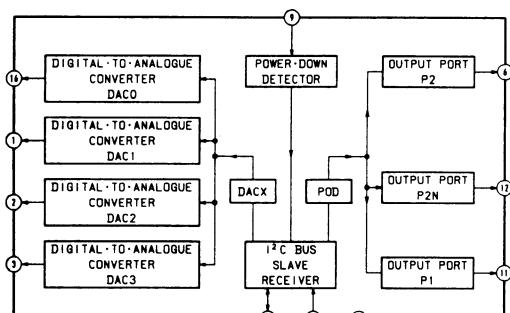
• B BOARD WAVEFORM



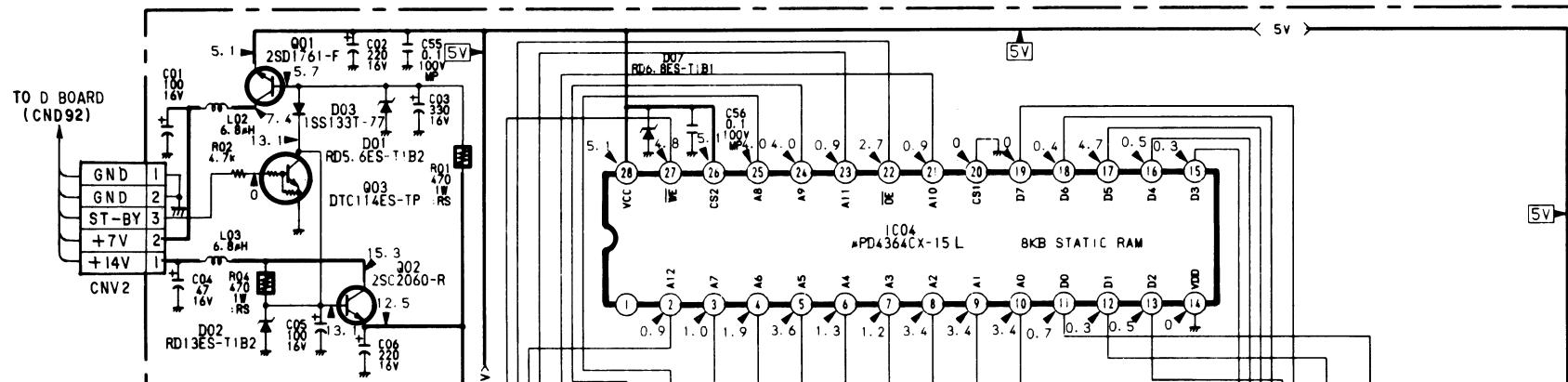
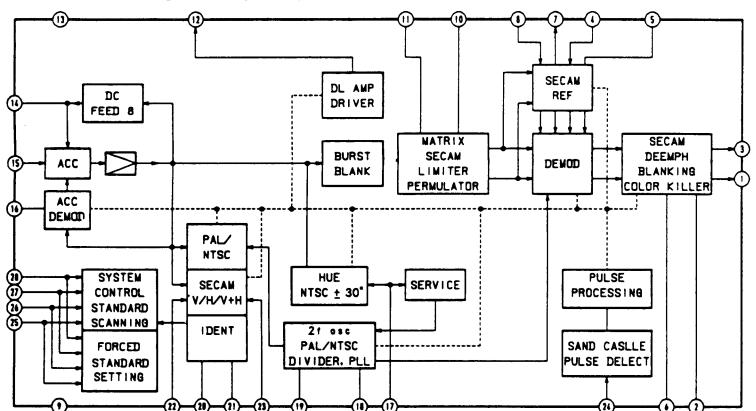
• V BOARD WAVEFORM



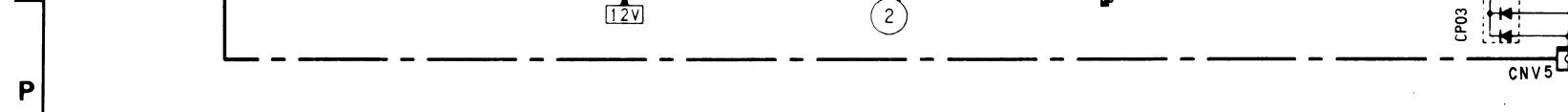
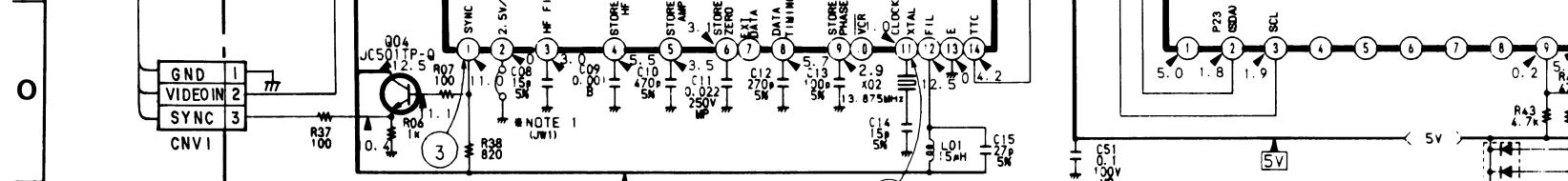
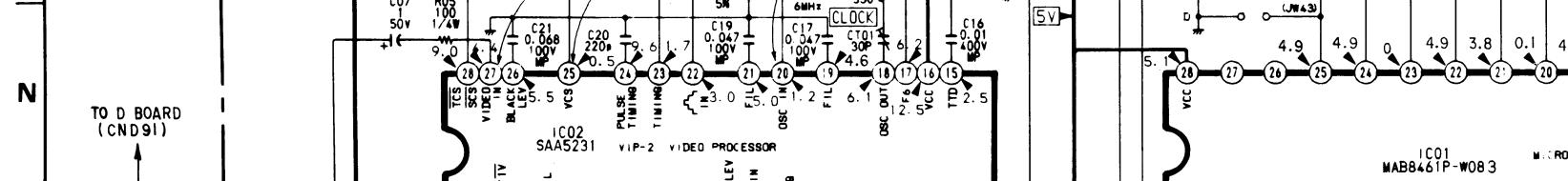
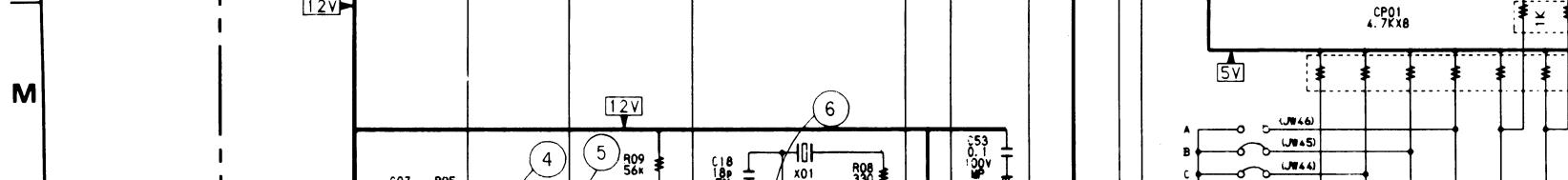
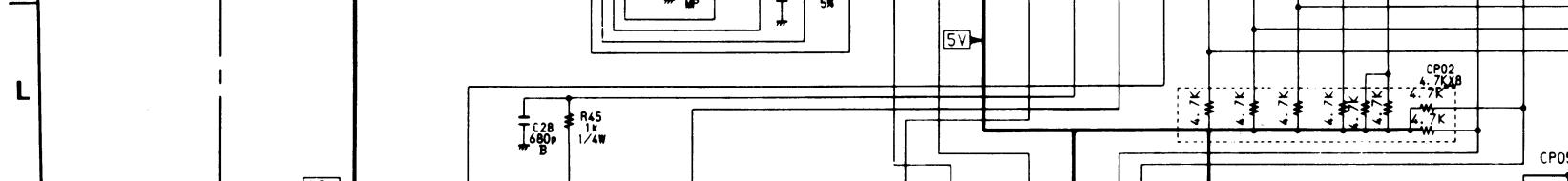
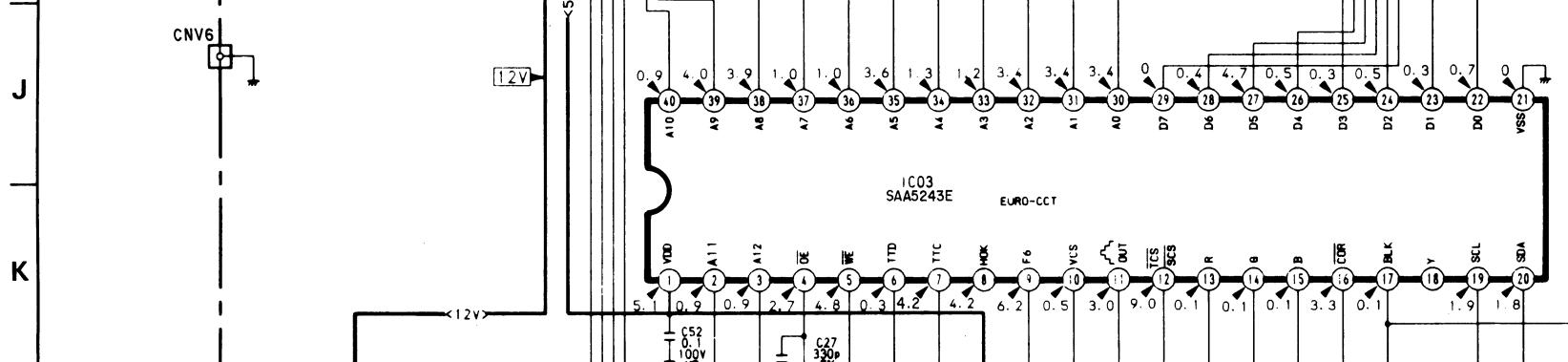
B BOARD IC302 TDA8442



B BOARD IC331 TDA4555

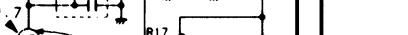
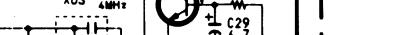
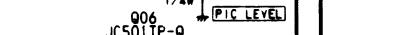
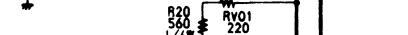
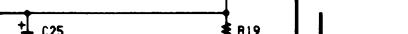
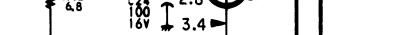
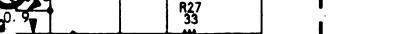
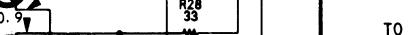
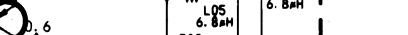
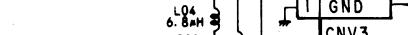
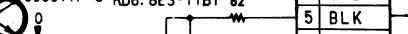
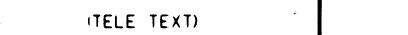
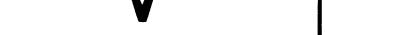
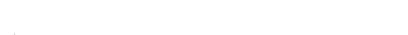
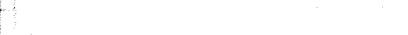
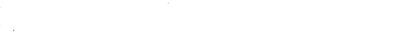
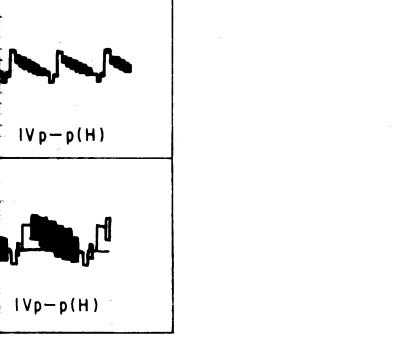
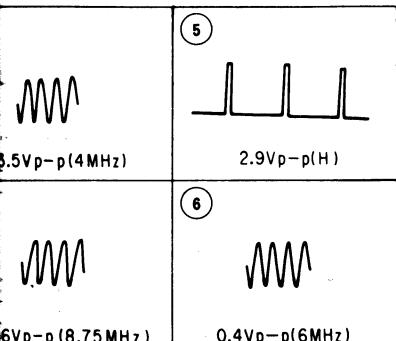


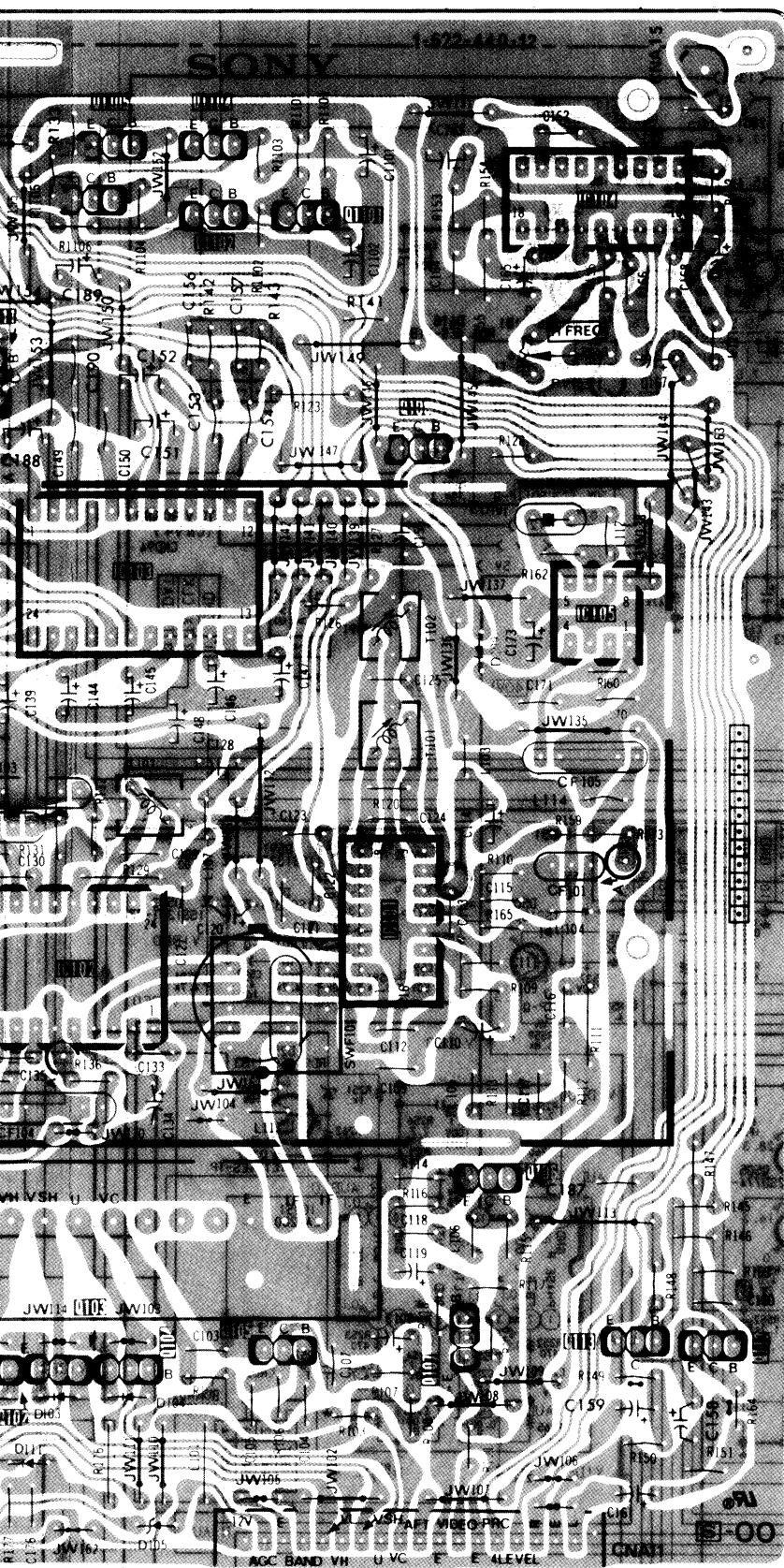
V
TELE TEXT



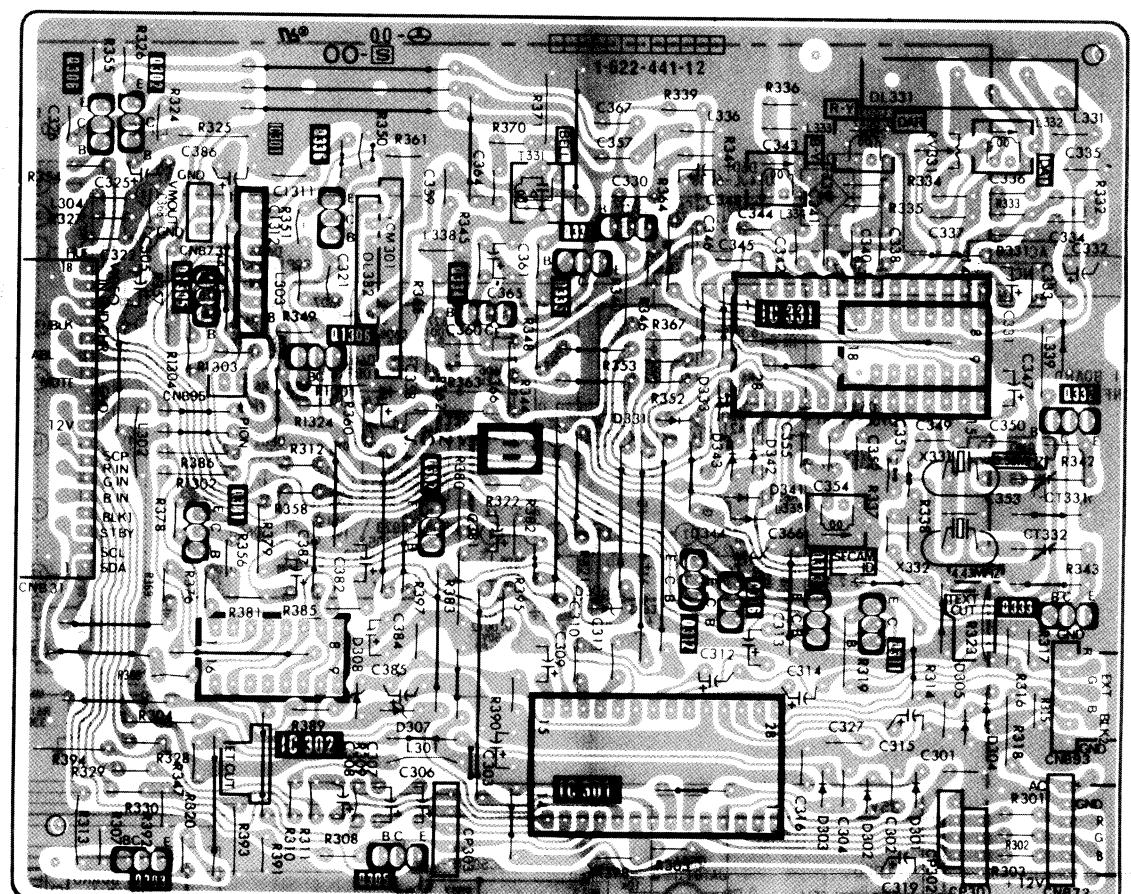
V
TELE TEXT

10 11 12 13 14 15 16 17 18 19 20 21

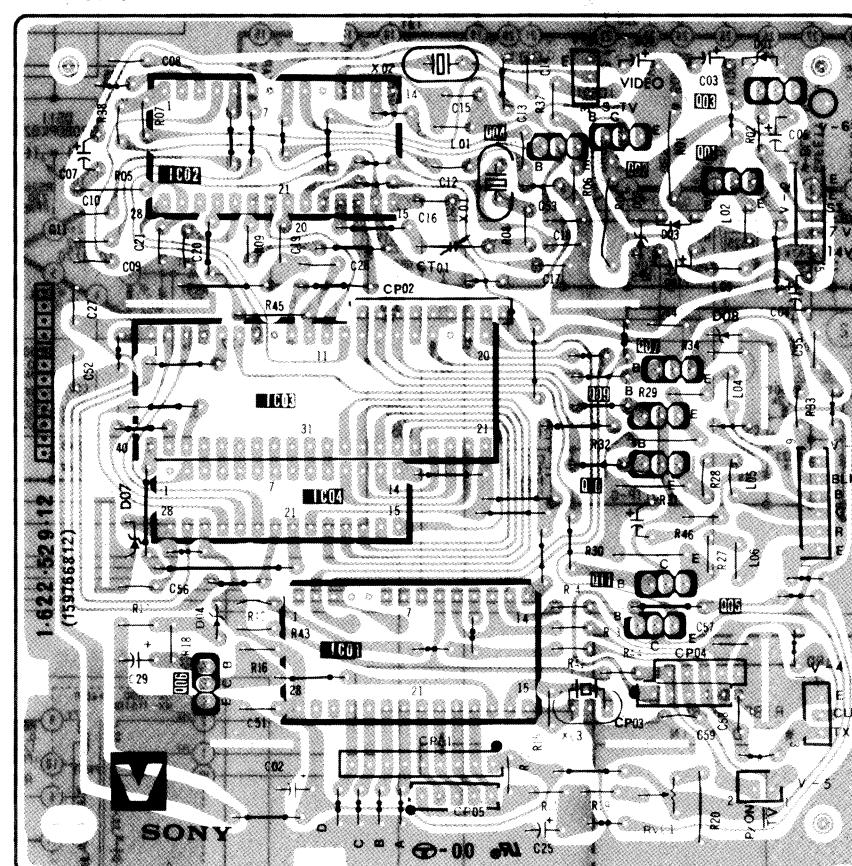
BOARD WAVEFORM



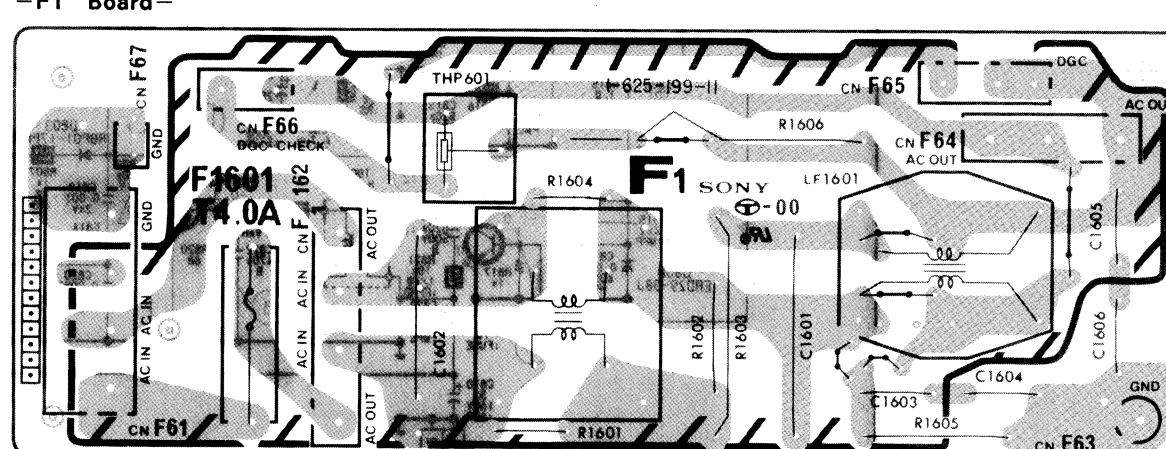
—B Board—



- V Board -

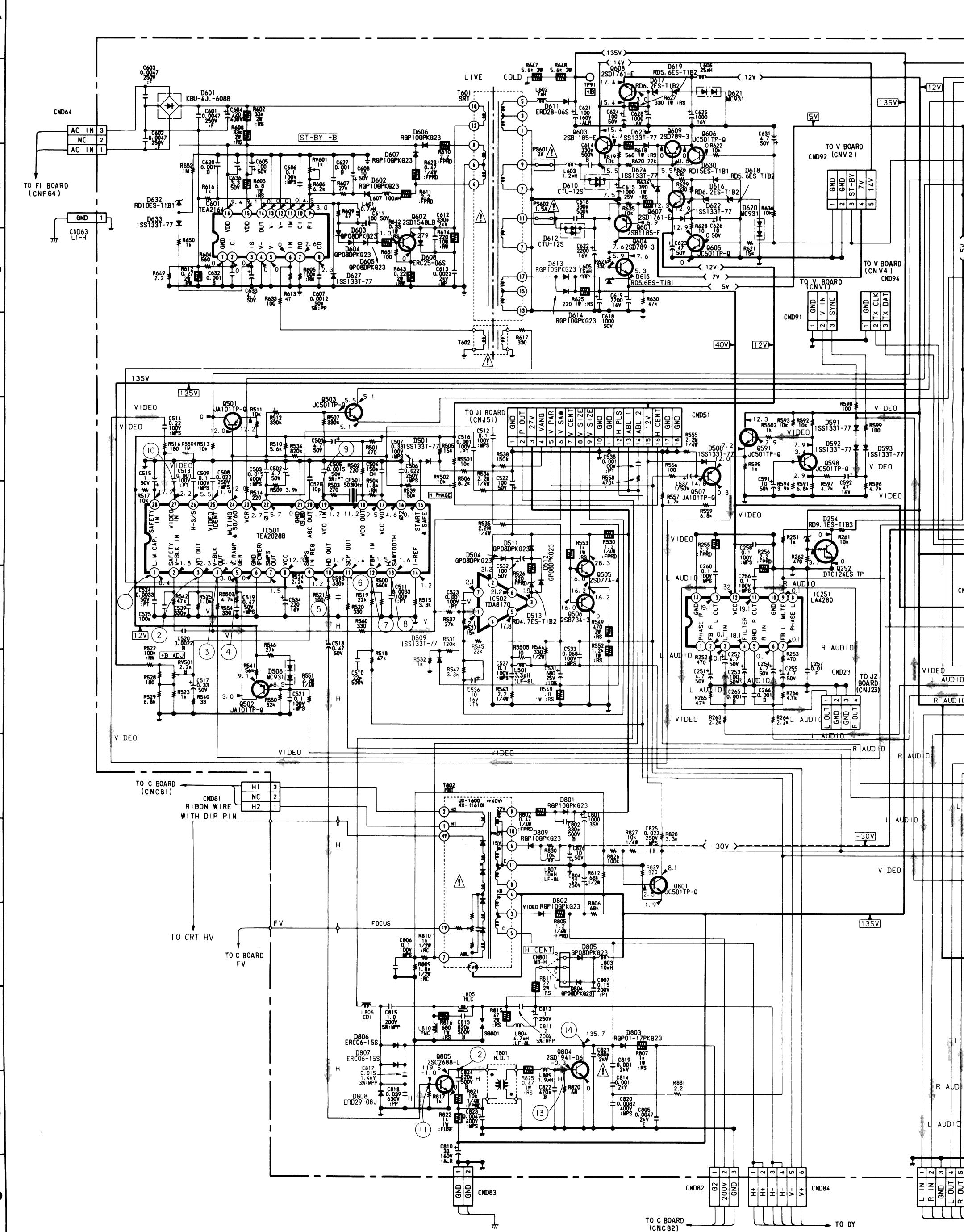


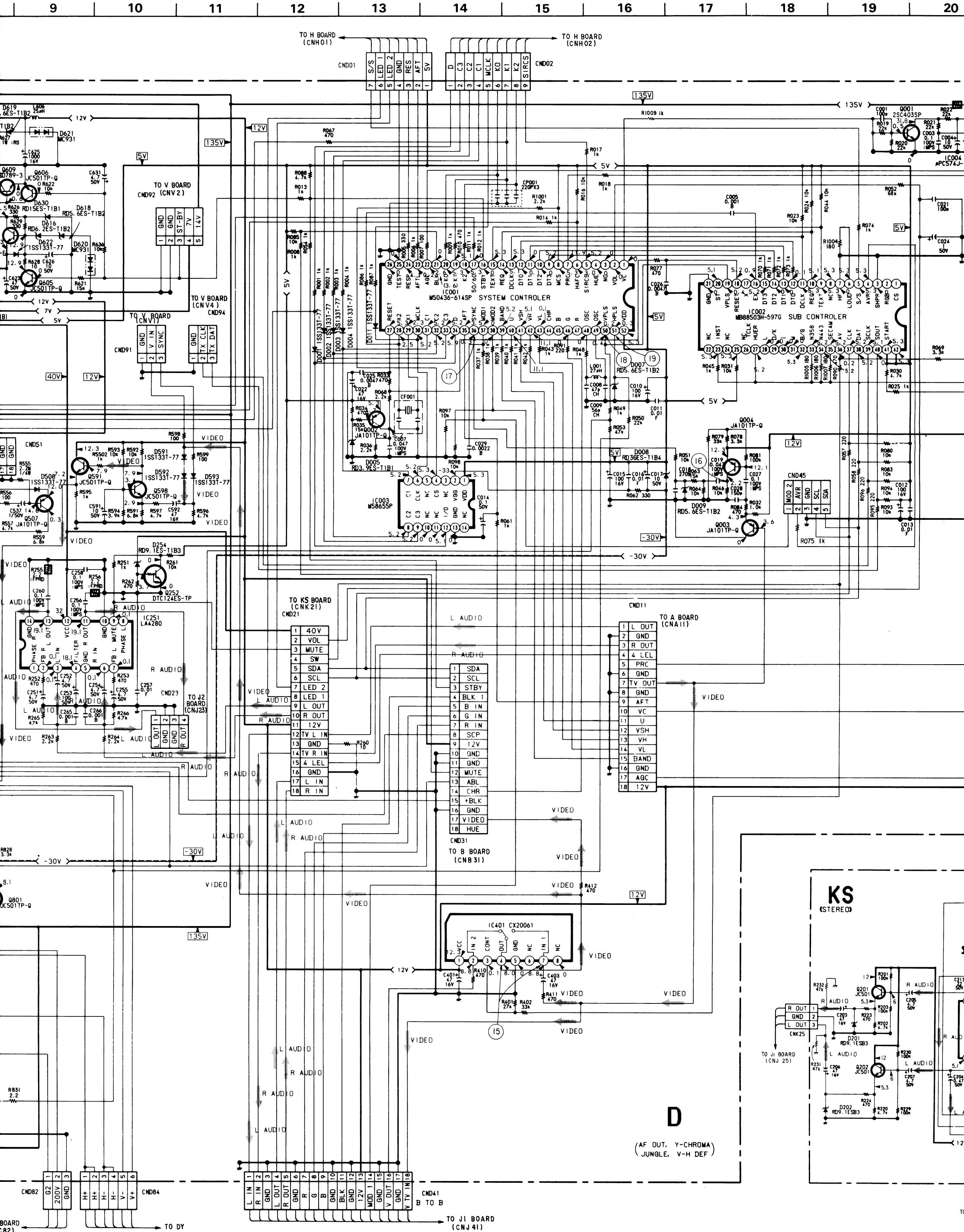
E1 Board

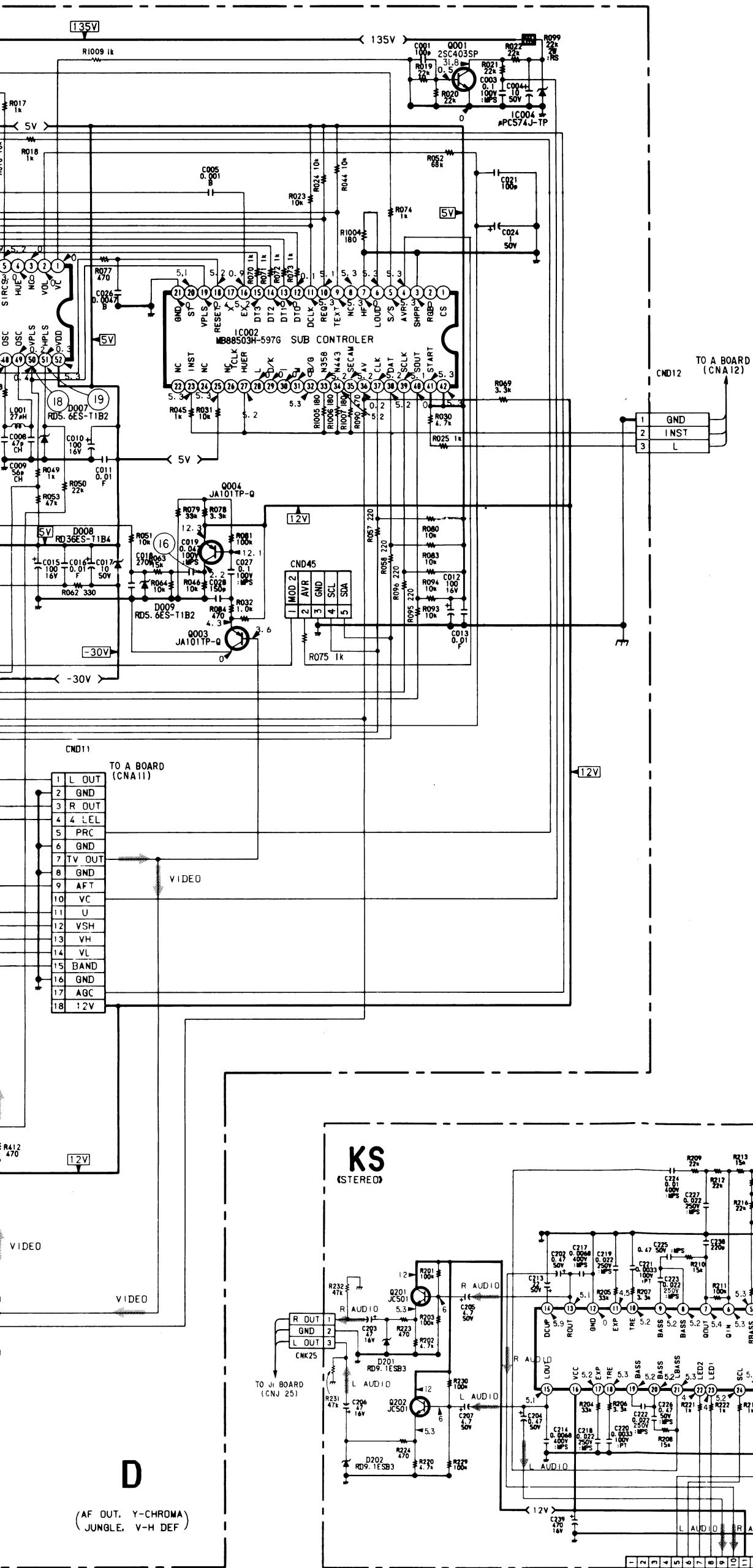


SCHEMATIC DIAGRAM (2)

1 2 3 4 5 6 7 8 9 10 11





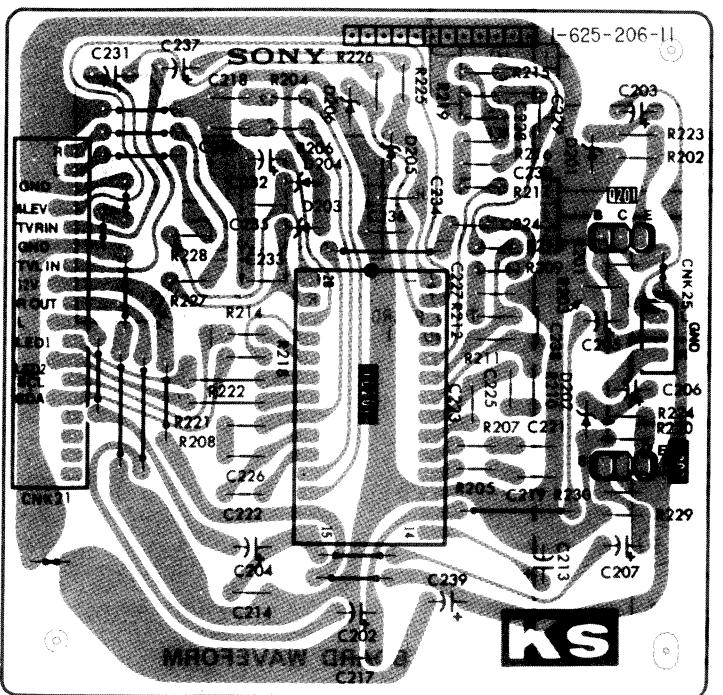


IC 001	M50436-614SP	TUNING CTL
002	MB88503H-597G	SYSTEM CTL
003	M58655P	MEMORY
004	μPC574J	REG
251	LA4280	AF OUT
401	CX20061	VIDEO SW
501	TEA2028B	JUNGLE
502	TDA8170	V OUT
601	TEA2164	POWER CTL
Q 001	2SC403	VC AMP
002	JA101	RESET
003	JA101	VIDEO BUFF
004	JA101	SYNC SEP
252	DTC124ES	MUTE
501	JA101	50/60 SW
502	JA101	V SAW
503	JC501	SYNC DET
505	2SD774-4	V CENT-1
506	2SB734-4	V CENT-2
507	JA101	VLK SW
591	JC501	SYNC SW
598	JC501	SYNC AMP
601	2SB1185	ST BY SW-1
602	2SD1548	REG OUT
603	2SB1185	ST BY SW-2
604	2SD789-04	+5V REG
605	JC501	ST BY SW-3
606	JC501	ST BY SW-4
607	2SD1761-E	+12V REG-1
608	2SD1761-E	+12V REG-2
609	2SD789-04	ST BY SW-5
801	JC501	ABL AMP
804	2SD1941-06	H OUT
805	2SC2688-L	H DRIVE
D 001	ISS133	KEY SCAN-1
002	ISS133	KEY SCAN-2
003	ISS133	KEY SCAN-3
004	ISS133	KEY SCAN-4
005	RD3.9ES-B1	PROTECT-1
007	RD5.6ES-B2	PROTECT-2
008	RD36ES-B4	39V ZENER
009	RD5.6ES-B2	PROTECT-3
011	ISS133	KEY SCAN-5
254	RD9.1ES-B3	10V ZENER
501	ISS133	SOFT START
504	GP08DPKG23	PONP UP
506	MC931	PROTECT-4
508	ISS133	BLK SW
509	ISS133	V LIN
511	GP08DPKG23	PROTECT-11
512	GP08DPKG23	PROTECT-12
513	RD4.7ES-B2	PROTECT-10
591	ISS133	SYNC SW-1
592	ISS133	SYNC SW-2
593	ISS133	SYNC SW-3
601	KBU4JL-6088	AC RECT
602	RGP10GPKG23	PROTECT-5
603	GP08DPKG23	REG DRIVE-1
604	GP08DPKG23	REG DRIVE-2
605	GP08DPKG23	REG DRIVE-3
606	RGP10GPKG23	REF RECT-1
607	RGP10GPKG23	REF RECT-2
608	ERC25-06S	PULSE CLIPPER
610	CTU-12S	+14V RECT
611	ERD28-06S	+135V RECT
612	CTU-12S	+7V RECT
613	RGP10GPKG23	AF RECT
614	RGP10GPKG23	AF RECT
615	RD5.6ES-B1	REG-4
616	RD6.2ES-B2	REG-1
617	RD6.2ES-B2	REG-2
618	RD5.6ES-B2	REG-3
619	RD5.6ES-B2	REG-3
620	MC931	PROTECT-6
621	MC931	
622	ISS133	PROTECT-8
623	ISS133	STBY SW-1
624	ISS133	STBY SW-2
627	ISS133	PROTECT-9
630	RD15ES-B1	REG
632	RD10ES-B1	PROTECT
633	ISS133	PROTECT
801	RGP10GPKG23	27V RECT
802	RGP10GPKG23	200V RECT
803	RGP01-17PKG23	
804	GP08DPKG23	H CENT-1
805	GP08DPKG23	H CENT-2
806	ERC06-15S	H DANPER-1
807	ERC06-15S	H DANPER-2
808	ERD29-08J	PIN DANPER
809	RGP10GPKG23	-30V RECT

IC 201	TDA6200	AF INTERFACE
Q 201	JC501	AF OUT
202	JC501	AF OUT
D 201	RD9.1ESB3	PROTECT
202	RD9.1ESB3	PROTECT
205	RD7.5ESB3	PROTECT
206	RD7.5ESB3	PROTEKT

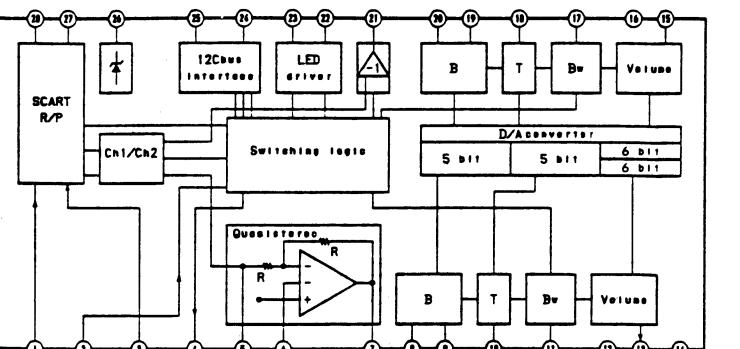
PRINTED WIRING BOARDS (2)

-KS Board-

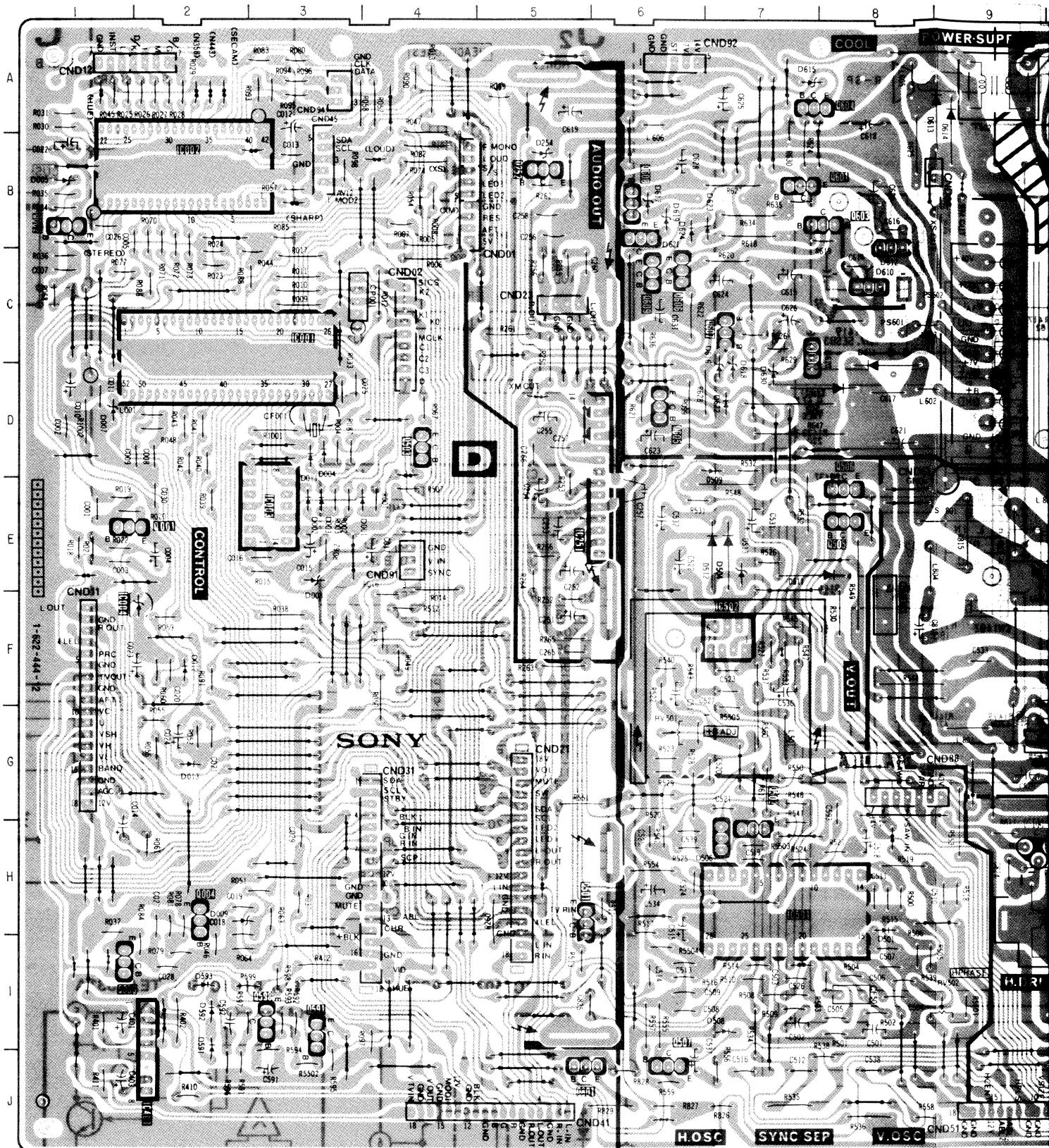


[STEREO] KS

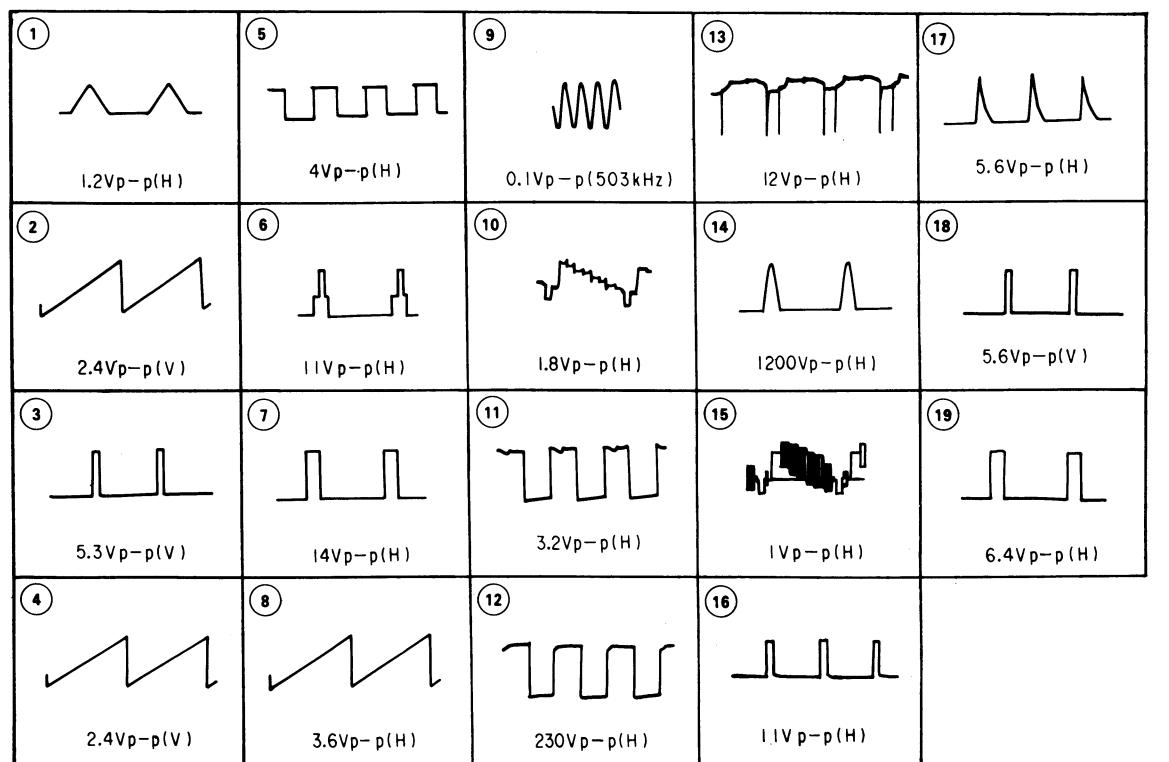
KS BOARD IC201 TDA6200

D [AF OUT , Y-CHROMA]
JUNGLE , V-H DEF

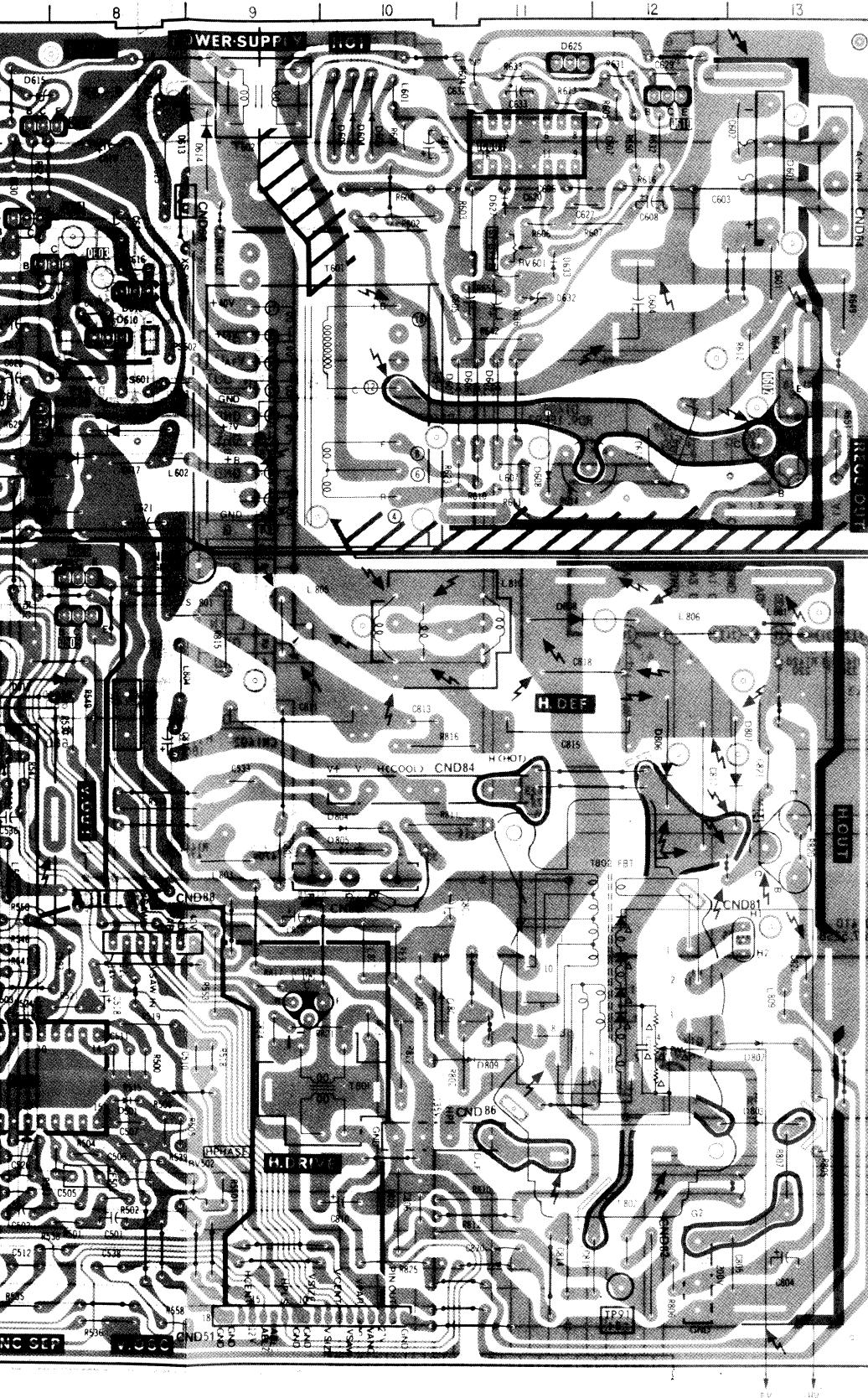
-D Board-



• D BOARD WAVEFORM

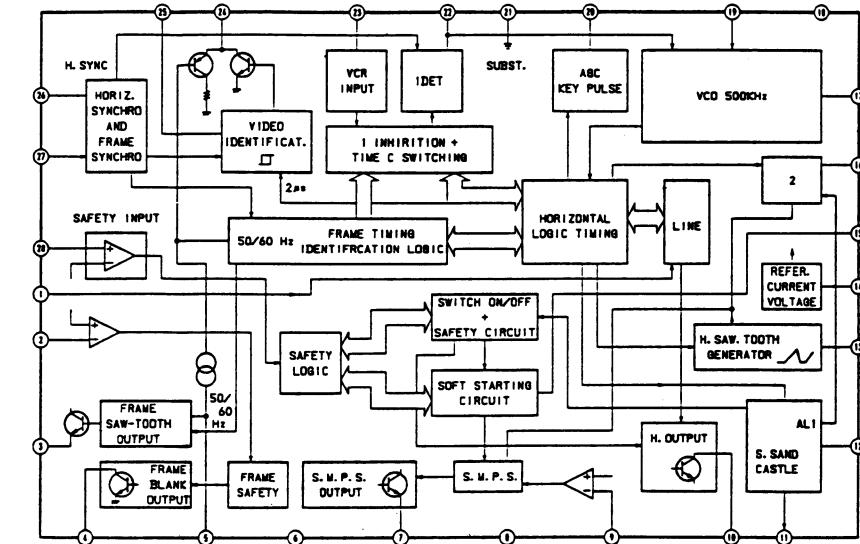


D

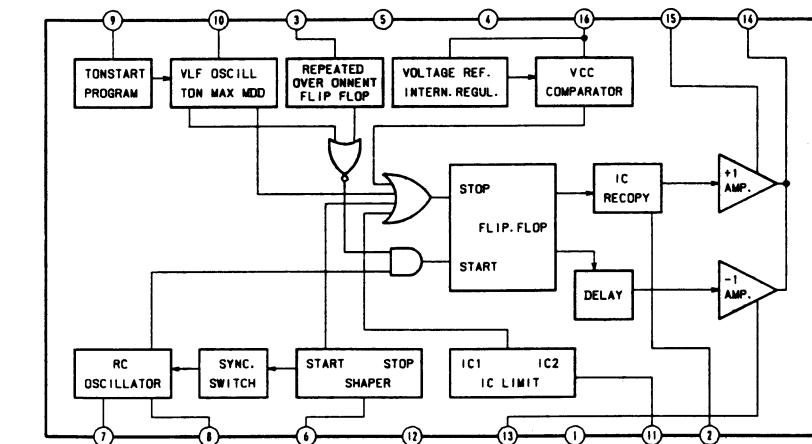


IC	
IC001	C-3
IC002	B-2
IC003	E-3
IC004	F-2
IC251	E-6
D509	D-7
D511	E-8
D512	E-7
D513	E-7
D591	I-2
D592	I-2
IC401	J-2
D593	I-2
IC501	H-7
D601	B-13
IC502	F-7
IC601	A-11
D603	A-10
TRANSISTOR	
Q001	E-1
Q002	B-1
Q003	I-1
Q004	H-2
Q252	B-5
D604	A-10
D605	A-10
D606	C-11
D607	C-11
D608	D-11
Q501	H-5
Q502	H-7
Q503	D-4
Q505	E-8
Q506	E-8
D610	C-8
D611	D-8
D612	C-8
D613	A-9
D614	A-9
D615	A-7
D616	D-7
D617	B-6
Q507	J-6
Q591	I-3
Q598	I-3
D618	D-7
D619	B-6
Q601	B-7
Q602	D-13
D620	C-7
D621	B-6
D622	D-7
D623	B-7
D624	B-6
D627	B-11
D630	D-7
D632	C-11
D633	B-11
D801	H-10
D802	H-13
D803	I-13
D804	F-10
D805	G-10
D806	F-12
D808	E-11
D809	H-11
DIODE	
D001	E-3
D002	E-3
D003	E-3
D004	D-3
D005	B-1
D007	D-1
D008	E-3
D009	H-2
D011	D-3
D013	G-2
D254	B-5
D501	H-8
D504	E-7
D506	H-7
D508	I-7
VARIABLE RESISTOR	
RV501	G-6
RV502	I-9
RV601	B-11

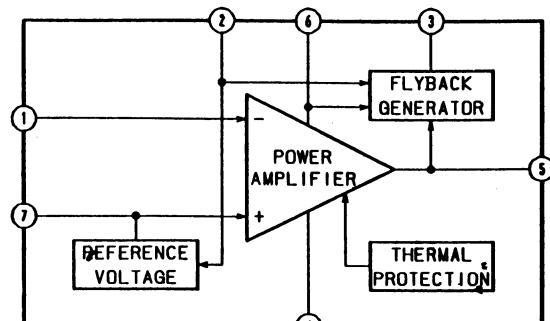
D BOARD IC501 TEA2028A



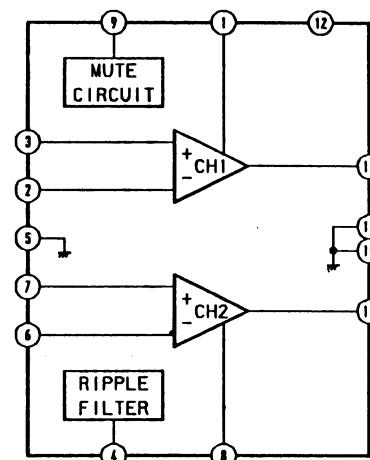
D BOARD IC601 TEA2164



D BOARD IC502 TDA8170

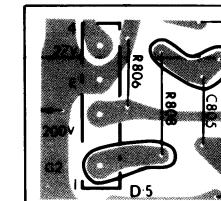


D BOARD IC251 LA4280

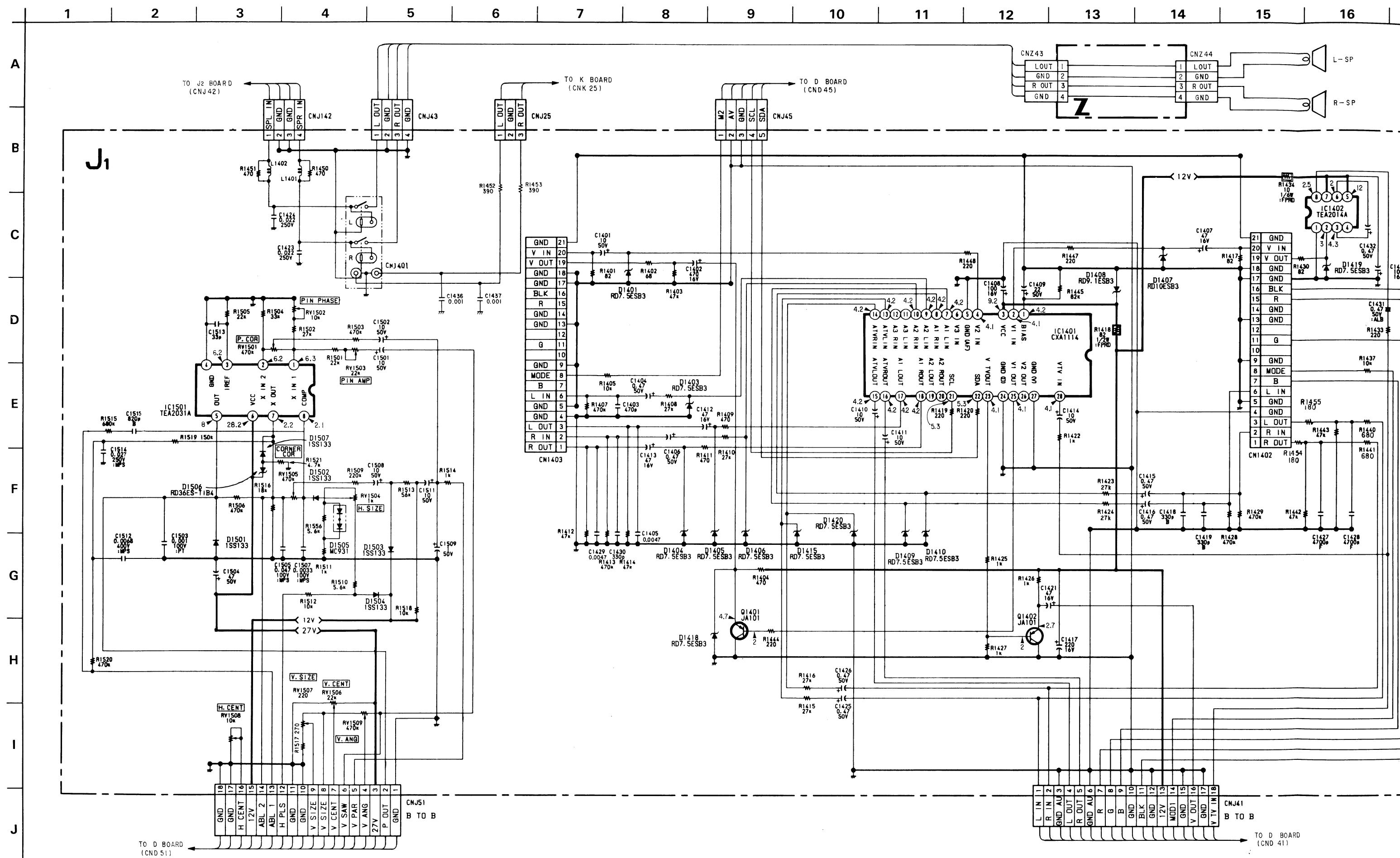


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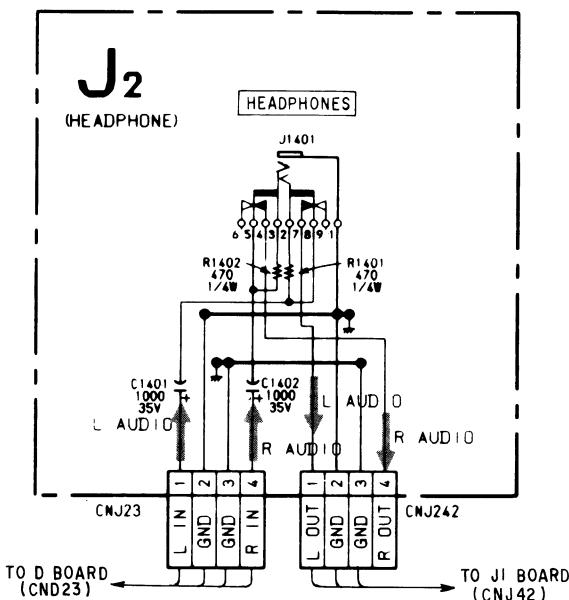
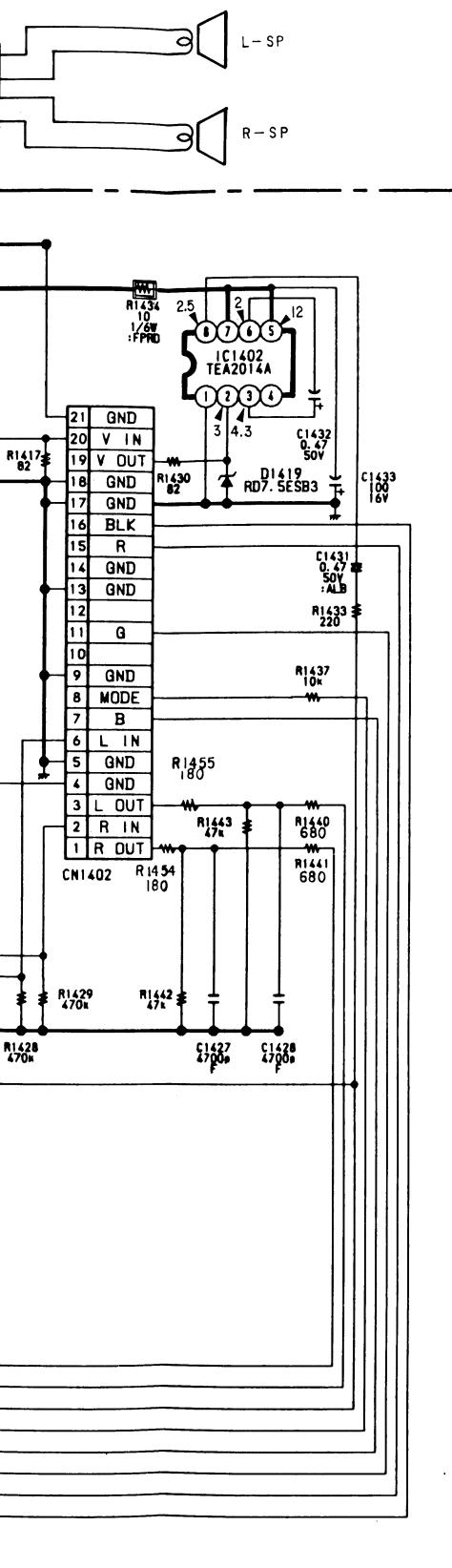
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



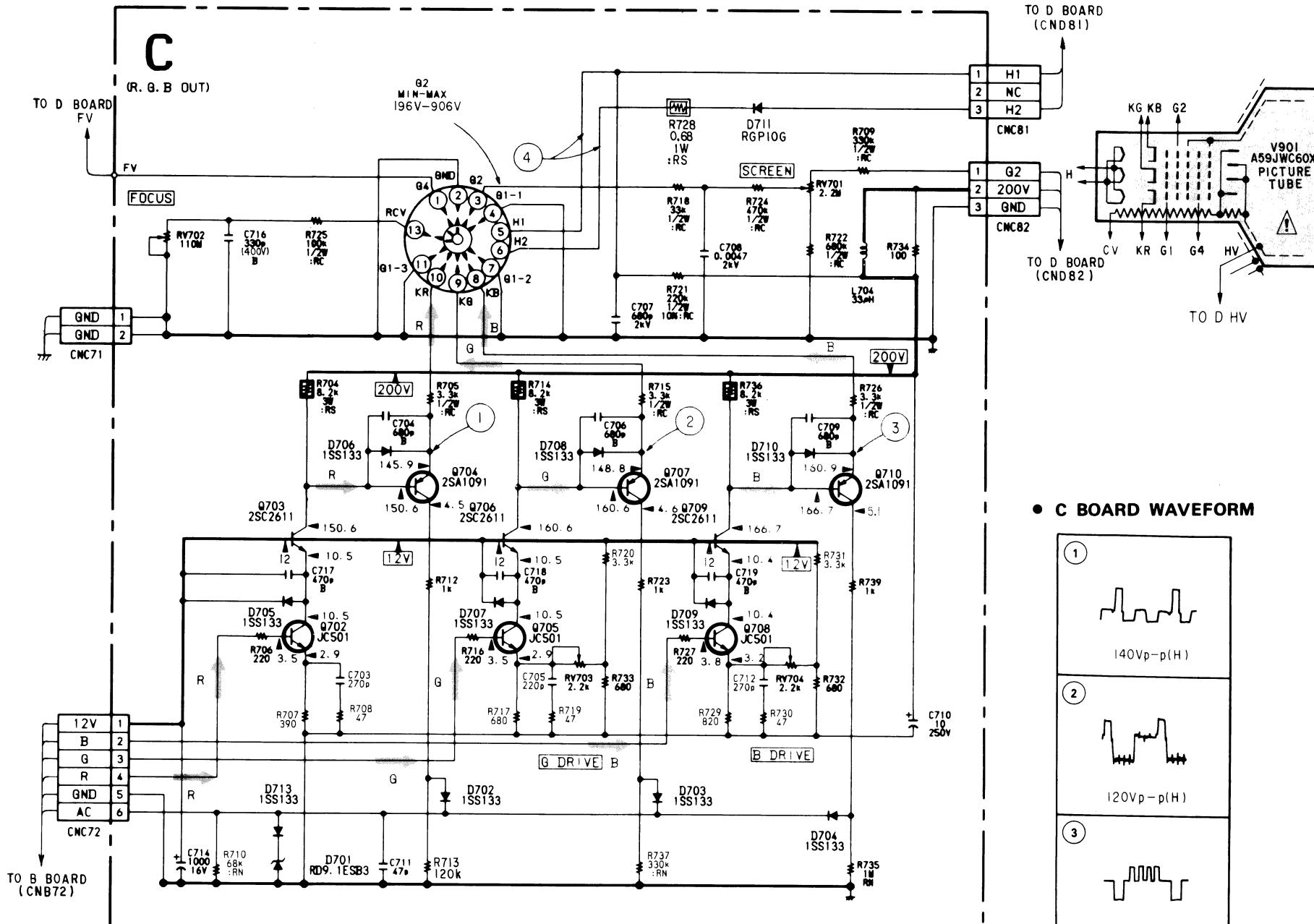
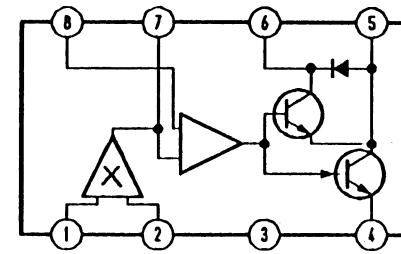
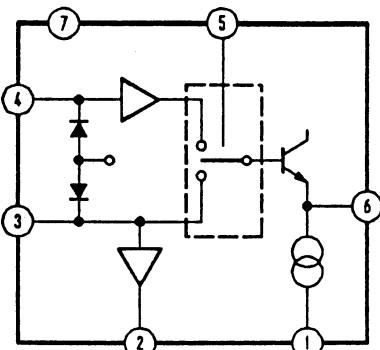
SCHEMATIC DIAGRAM (3)



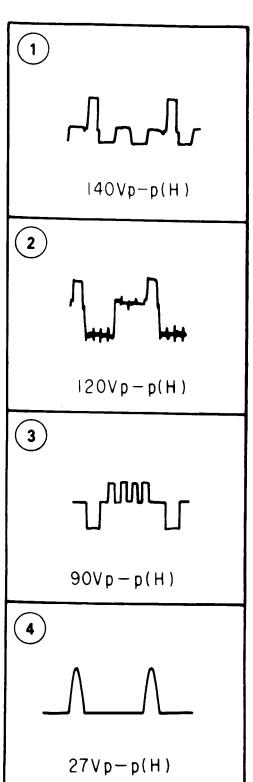
15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31



	IC1401	CXA1114	AV INTERFACE
	1402	TEA2014A	VIDEO AMP
	1501	TEA2031A	PIN AMP
	Q1401	JA101	VIDEO BUFF
	1402	JA101	VIDEO BUFF
J1	D1401	RD7.5ESB3	PROTECT
	1403	RD7.5ESB3	PROTECT
	1404	RD7.5ESB3	PROTECT
	1405	RD7.5ESB3	PROTECT
	1406	RD7.5ESB3	PROTECT
	1407	RD10ESB3	PROTECT
	1408	RD9.1ESB3	9V REG
	1409	RD7.5ESB3	PROTECT
	1410	RD7.5ESB3	PROTECT
	1415	RD7.5ESB3	PROTECT
	1418	RD7.5ESB3	PROTECT
	1419	RD7.5ESB3	PROTECT
	1420	RD7.5ESB3	PROTECT
	1501	ISS120	PROTECT
	1502	ISS133	DC STOP
	1503	ISS133	CORNER CORRECT
	1504	ISS133	H.P SLICER
	1505	MC931	PROTECT
	1506	RD36ESB4	PROTECT
	1507	ISS133	PROTECT



C	Q 702	JCS501	R AMP	D 701	RD10ES-B3	PROTECT-1
	703	2SC2611	R OUT	702	ISS133	AC MIX-1
	704	2SA1091	R AC AMP	703	ISS133	AC MIX-2
	705	JCS501	G AMP	704	ISS133	AC MIX-3
	706	2SC2611	G OUT	705	ISS133	PROTECT-2
	707	2SA1091	G AC AMP	706	ISS133	PROTECT-3
	708	JCS501	B AMP	707	ISS133	PROTECT-4
	709	2SC2611	B OUT	708	ISS133	PROTECT-5
	710	2SA1091	B AC AMP	709	ISS133	PROTECT-6
				710	ISS133	PROTECT-7
				711	RGP10G	PROTECT-8
				713	ISS133	PROTECT



J1

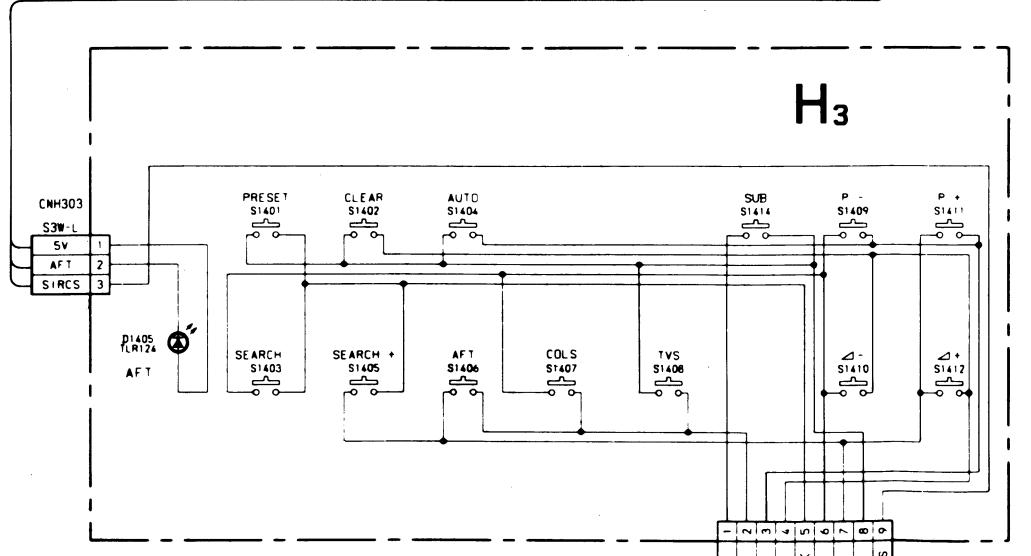
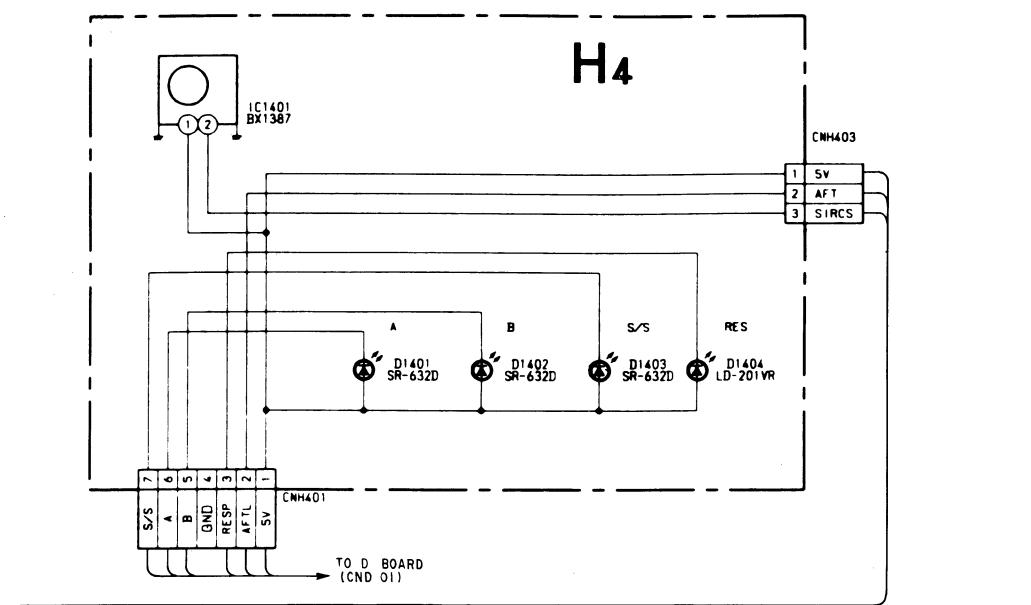
(HEADPHONE)

J2

H3

H4

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



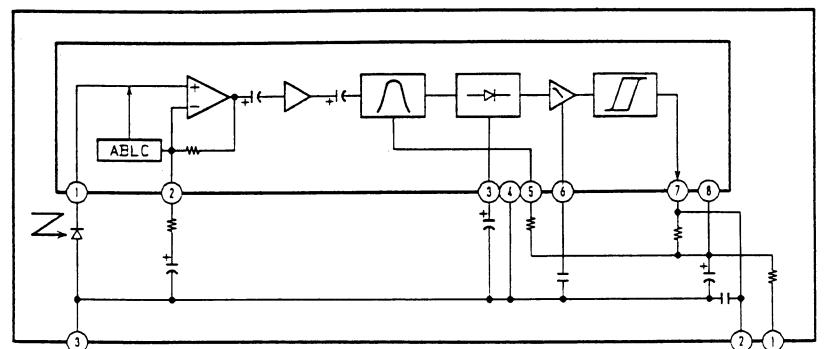
H4

IC1401	BX1387	REMOCON RECEIVER
D1401	SR632D	A
1402	SR632D	B
1403	SR632D	SPACE SOUND
1404	SR632D	RESP

H3

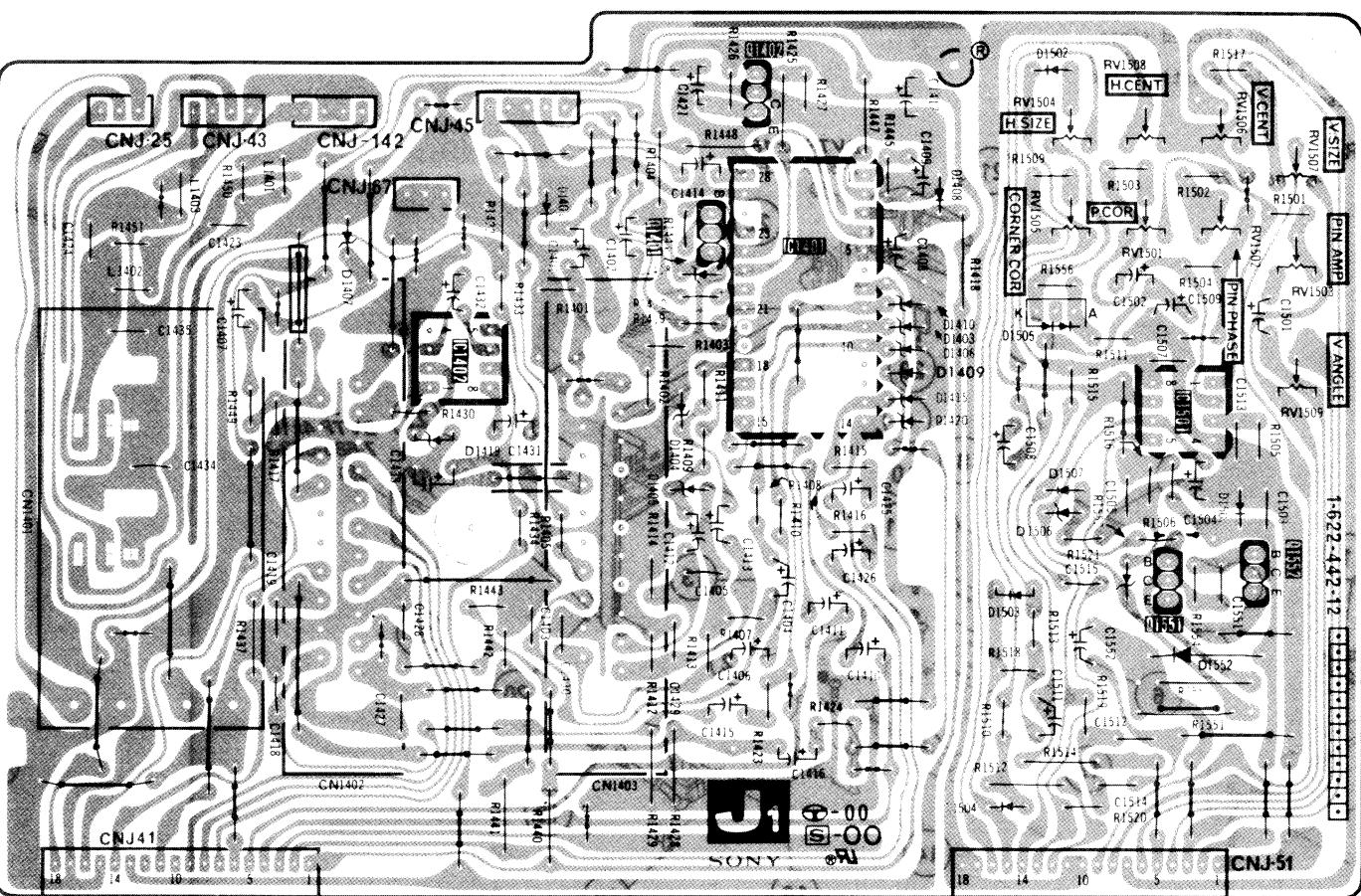
D1405	TLR124	AFT
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H4 BOARD IC1401 BX1387

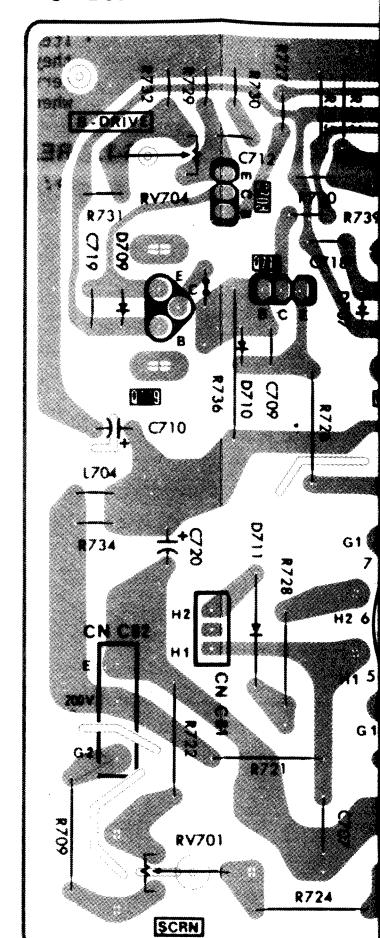


PRINTED WIRING BOARDS (3)

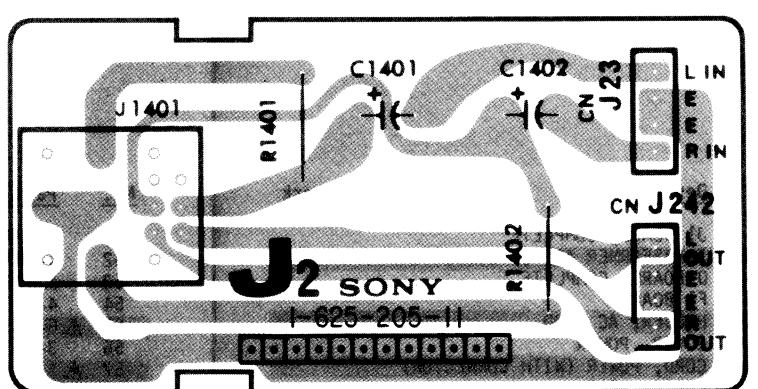
-J1 Board-



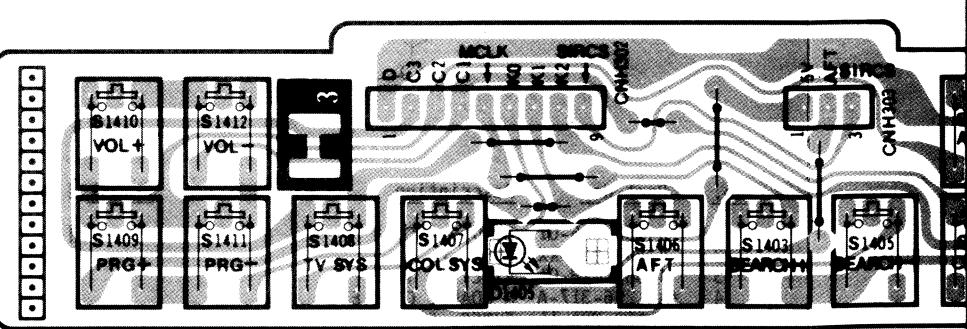
-C Board-



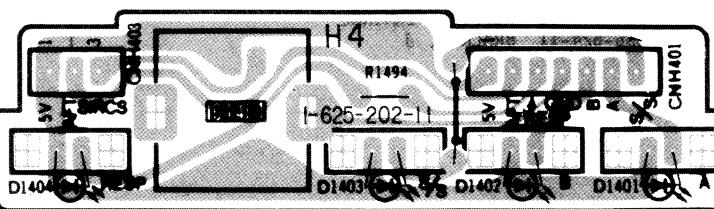
-J2 Board-



-H3 Board-



-H4 Board-



J2

H3

H4

(R.G.B OUT)

C

Z

7

8

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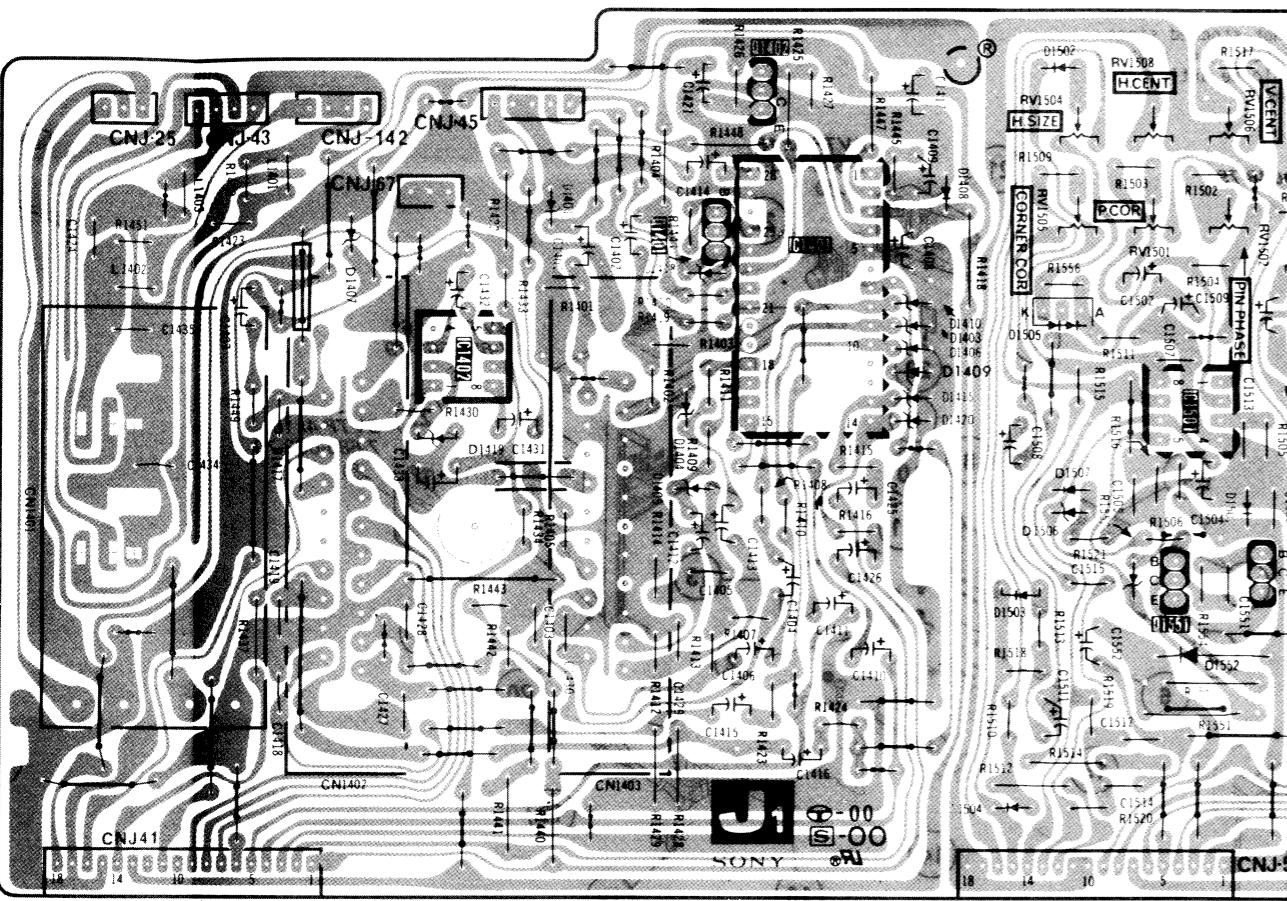
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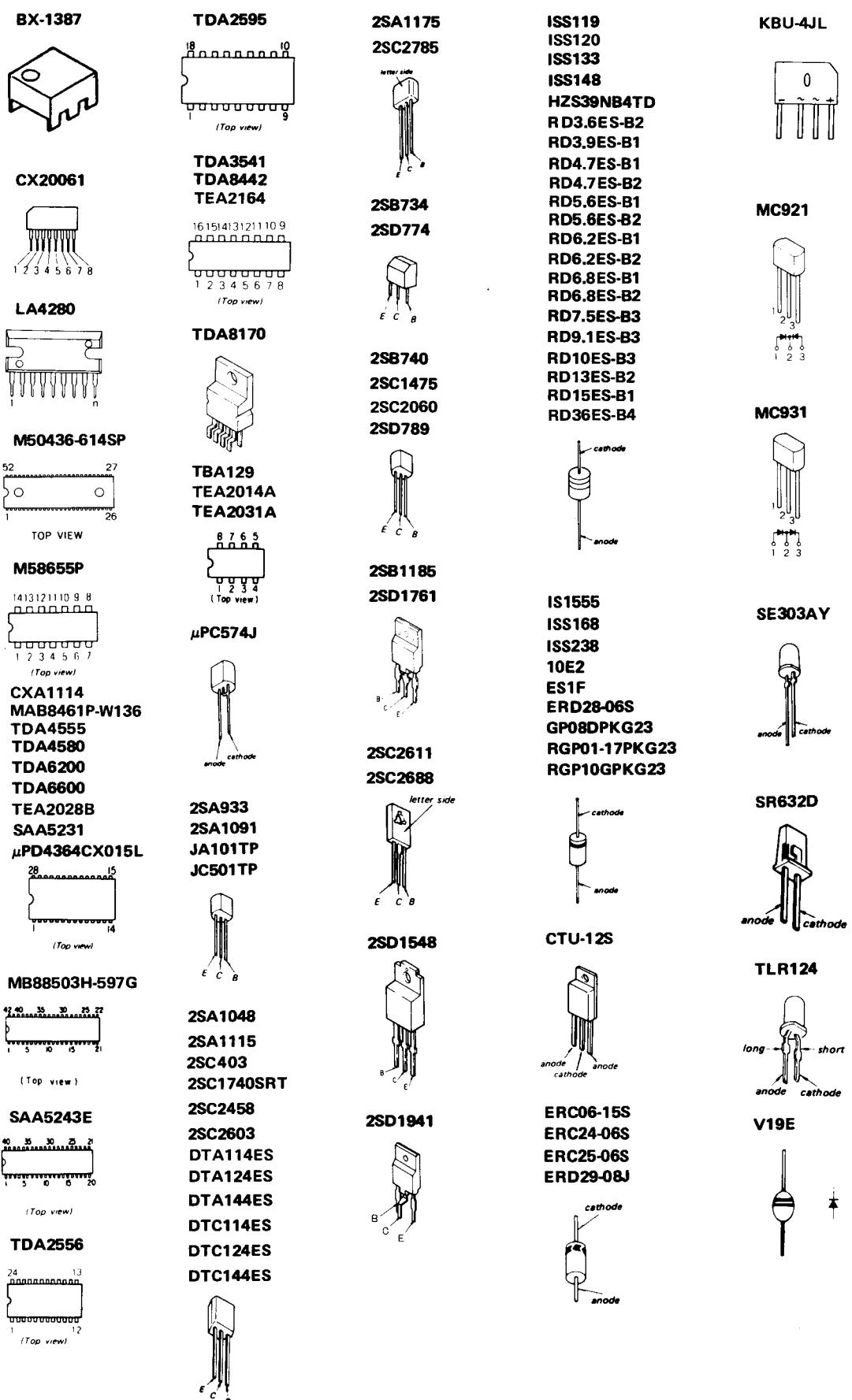
23

PRINTED WIRING BOARDS (3)

-J1 Board-



5-5. SEMICONDUCTORS



NOTE:

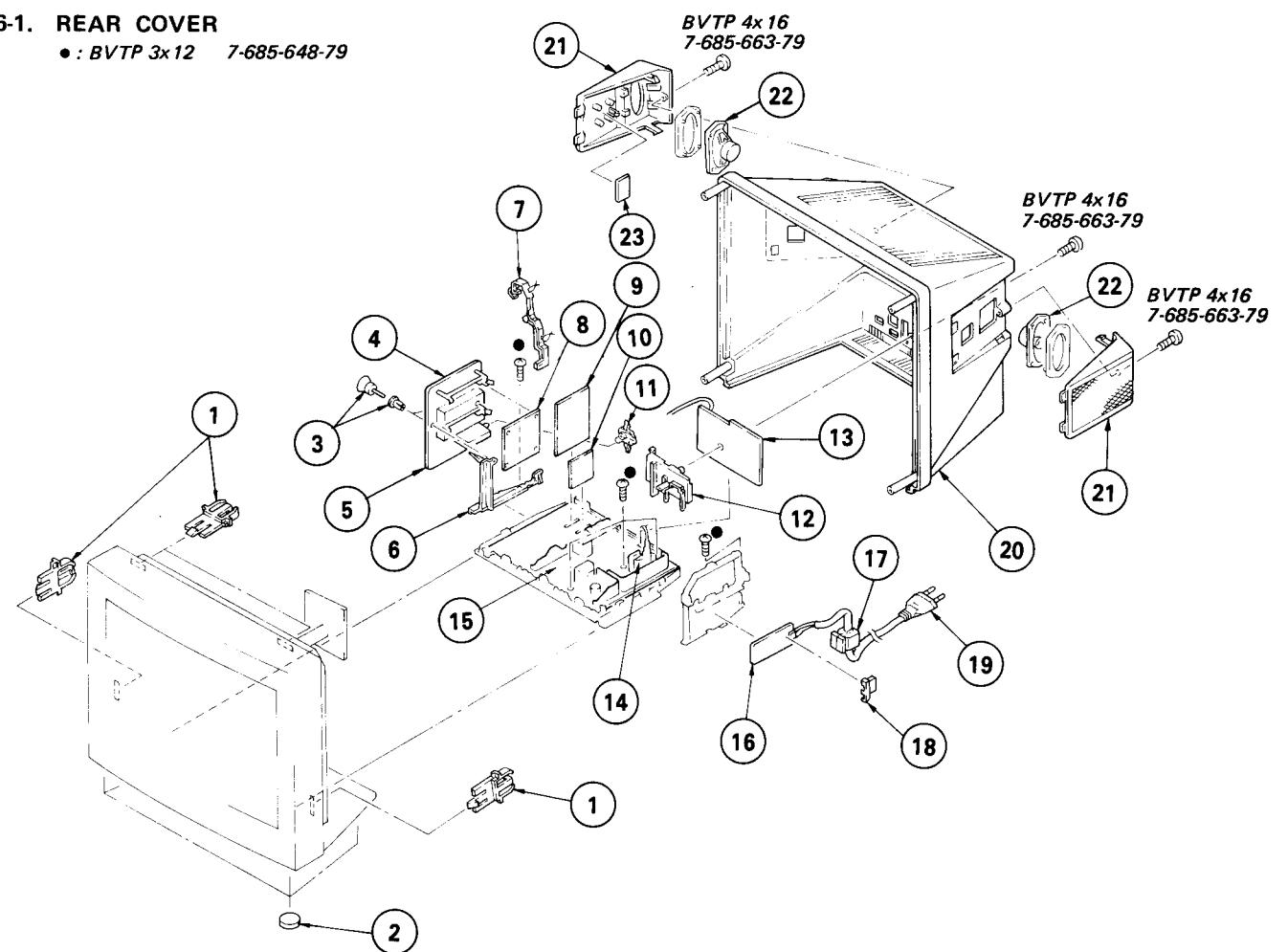
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SECTION 6
EXPLODED VIEWS

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

6-1. REAR COVER

• : BVTP 3x12 7-685-648-79



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	4-382-745-01	HOLDER, RC		13	*A-1371-373-A	J1 BOARD, COMPLETE	
2	4-809-913-XX	FOOT, F		14	Δ A-1439-416-11	TRANSFORMER ASSY, FLYBACK	
3	4-386-618-01	RIVET, T TYPE		15	*A-1345-720-A	D BOARD, COMPLETE	
4	*A-1296-317-A	A BOARD, COMPLETE		16	*1-625-199-11	F1 BOARD	
5	Δ A-1463-891-11	TUNER, ET (UV-617)		17	Δ A-022-115-01	HOLDER, AC CORD	
6	*4-386-629-11	BRACKET, A		18	*4-386-620-01	COVER, POWER	
7	*4-386-628-11	SUPPORTER, PC BOARD		19	Δ A-1-559-346-11	CORD, POWER (WITH CONNECTOR)	
8	*A-1347-014-A	V BOARD, COMPLETE		20	4-387-818-01	COVER, REAR	
9	*A-1135-455-A	B BOARD, COMPLETE		21	X-4385-930-1	BOARD ASSY, BAFFLE	
10	*1-625-206-11	KS BOARD		22	1-503-642-21	SPEAKER	
11	*4-386-617-01	HOLDER, TERMINAL		23	*1-625-208-11	Z BOARD	
12	*4-386-624-11	BRACKET, J					
51	4-387-1			51	4-387-1		
52	4-387-1			52	4-387-1		
53	X-4385-			53	X-4385-		
54	4-386-			54	4-386-		
55	Δ A-733-			55	Δ A-733-		
56	3-703-1			56	3-703-1		
57	Δ A-1-451-			57	Δ A-1-451-		
58	*4-379-			58	*4-379-		
59	*A-1330-			59	*A-1330-		
60	*4-379-			60	*4-379-		
61	4-303-			61	4-303-		
62	*4-385-			62	*4-385-		
63	Δ A-1-426-			63	Δ A-1-426-		
64	*4-371-			64	*4-371-		
65	4-373-			65	4-373-		
66	*4-387-			66	*4-387-		

SECTION 6

EXPLODED VIEWS

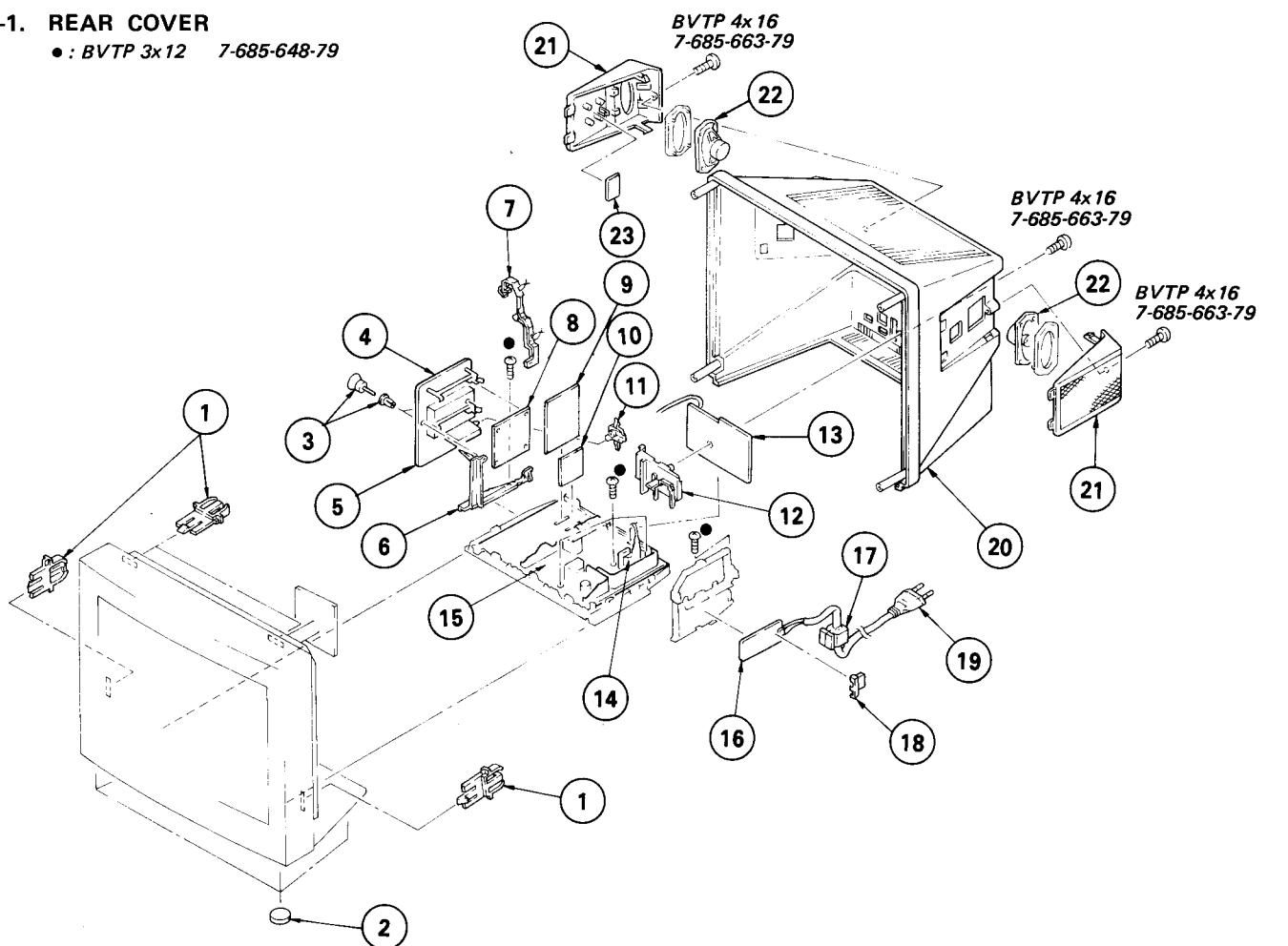
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

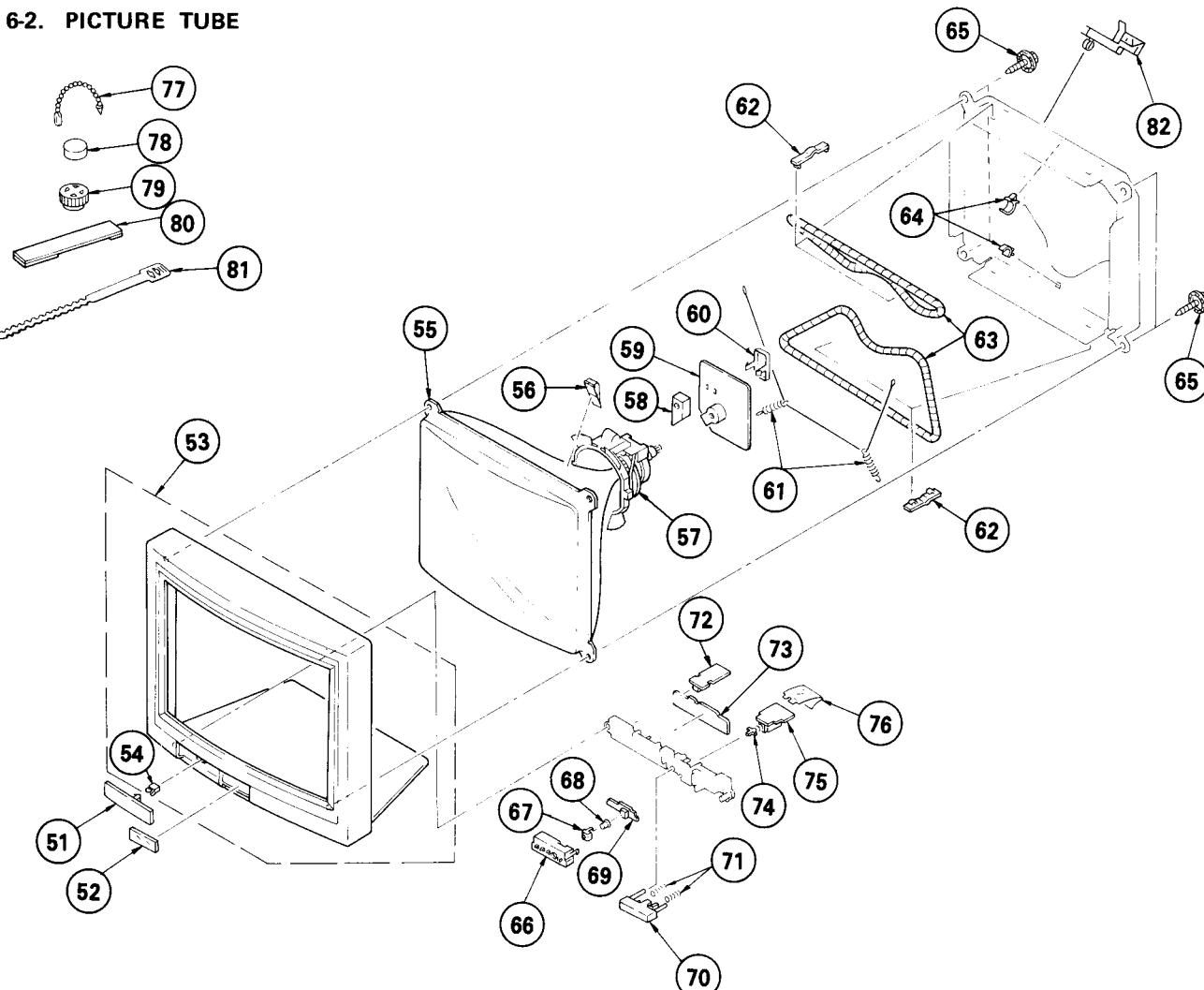
The components identified by shading and mark **▲** are critical for safety.
Replace only with part number specified.

6-1. REAR COVER

• : BVTP 3x12 7-685-648-79



6-2. PICTURE TUBE



The components identified by shading and mark **▲** are critical for safety.
Replace only with part number specified.

No.	Part No.	Description	Remark	No.	Part No.	Description	Remark	No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	4-382-745-01	HOLDER, RC		13	*A-1371-373-A	J1 BOARD, COMPLETE		51	4-387-814-21	DOOR		67	*4-381-686-01	BRACKET (B), BAR, OPTICAL	
2	4-809-913-XX	FOOT, F		14	▲.1-439-416-11	TRANSFORMER ASSY, FLYBACK		52	4-387-826-01	WINDOW, ORNAMENTAL		68	*4-374-987-01	GUIDE, LIGHT	
3	4-386-618-01	RIVET, T TYPE		15	*A-1345-720-A	D BOARD, COMPLETE		53	X-4385-931-1	BEZEL & CABINET ASSY		69	*1-625-202-11	H4 BOARD	
4	*A-1296-317-A	A BOARD, COMPLETE		16	*1-625-199-11	F1 BOARD		54	4-386-710-01	CATCHER, PUSH		70	4-387-812-01	BUTTON, POWER	
5	▲.1-463-881-11	TUNER, ET (UV-617)		17	▲.4-022-115-01	HOLDER, AC CORD		55	▲.8-733-224-05	PICTURE TUBE (A59JWC60X)		71	4-387-809-01	SPRING	
6	*4-386-629-11	BRACKET, A		18	*4-386-620-01	COVER, POWER		56	3-703-961-01	SPACER, DY		72	*1-625-205-11	J2 BOARD	
7	*4-386-628-11	SUPPORTER, PC BOARD		19	▲.1-559-346-11	CORD, POWER (WITH CONNECTOR)		57	▲.1-451-311-21	DEFLECTION YOKE (SY-153E)		73	*1-625-201-11	H3 BOARD	
8	*A-1347-014-A	V BOARD, COMPLETE		20	4-387-818-01	COVER, REAR		58	*4-379-167-01	COVER (MAIN), CV		74	▲.1-571-410-11	SWITCH, PUSH (AC POWER) (1 KEY)	
9	*A-1135-455-A	B BOARD, COMPLETE		21	X-4385-930-1	BOARD ASSY, BAFFLE		59	*A-1330-849-A	C BOARD, COMPLETE		75	*1-625-200-11	F2 BOARD	
10	*1-625-206-11	KS BOARD		22	1-503-642-21	SPEAKER		60	*4-379-160-01	COVER (REAR LID), CV		76	4-387-804-01	INSULATOR	
11	*4-386-617-01	HOLDER, TERMINAL		23	*1-625-208-11	Z BOARD		61	4-303-774-XX	SPRING		77	4-308-870-00	CLIP, LEAD WIRE	
12	*4-386-624-11	BRACKET, J						62	*4-385-916-01	HOLDER (D)		78	1-452-032-00	MAGNET, DISK; 10MM Ø	
								63	▲.1-426-325-11	COIL, DEMAGNETIZATION		79	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
								64	*4-371-629-01	STOPPER, WIRE		80	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
								65	4-373-263-01	SCREW (M), PT		81	3-701-007-00	BAND, BINDING	
								66	*4-387-813-01	COVER, H2		82	*4-387-216-01	HOLDER, LEAD	

SECTION 7

ELECTRICAL PARTS LIST

KV-X25TD
RM-673

B

NOTE:

The components identified by shading and mark  are critical for safety.

**Replace only with part number
specified.**

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS COILS
 $\text{: } \mu\text{F, PF : } \mu\mu\text{F}$ • MMH : mH, UH : μH

Note : In this parts list, the mounting diagram is for a different product.

- All resistors are in ohms
- F : nonflammable

RESISTORS

Note: In this parts list, the mounting diagram is for a different product.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark		
*A-1135-455-A	B BOARD, COMPLETE			C367	1-101-004-00	CERAMIC	0.01MF		
	*****			C368	1-101-880-00	CERAMIC	47PF		
	<u>CAPACITOR</u>			C381	1-124-902-00	ELECT	0.47MF		
C301	1-110-179-81	MYLAR	0.22MF	10%	100V	C382	1-124-927-11	ELECT	4.7MF
C302	1-110-179-81	MYLAR	0.22MF	10%	100V	C384	1-124-477-11	ELECT	47MF
C303	1-126-101-11	ELECT	100MF	20%	16V			20%	
C304	1-110-179-81	MYLAR	0.22MF	10%	100V			50V	
C305	1-124-119-00	ELECT	330MF	20%	16V			16V	
C306	1-124-902-00	ELECT	0.47MF	20%	50V				
C307	1-124-902-00	ELECT	0.47MF	20%	50V				
C308	1-124-902-00	ELECT	0.47MF	20%	50V	CNB31	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
C309	1-124-902-00	ELECT	0.47MF	20%	50V	CNB72	*1-564-895-11	PLUG, CONNECTOR 6P	
C310	1-110-175-81	MYLAR	0.1MF	10%	100V	CNB93	*1-560-278-00	PLUG, CONNECTOR 6P	
C311	1-110-175-81	MYLAR	0.1MF	10%	100V				
C312	1-124-902-00	ELECT	0.47MF	20%	50V				
C313	1-124-902-00	ELECT	0.47MF	20%	50V				
C314	1-124-902-00	ELECT	0.47MF	20%	50V	CT332	1-141-181-11	CAP, TRIMMER	
C315	1-124-499-11	ELECT	1MF	20%	50V				
C319	1-124-477-11	ELECT	47MF	20%	16V				
C321	1-102-980-00	CERAMIC	270PF	5%	50V				
C322	1-101-888-00	CERAMIC	68PF	5%	50V	D301	8-719-911-19	DIODE 1SS119	
C325	1-124-477-11	ELECT	47MF	20%	16V	D302	8-719-911-19	DIODE 1SS119	
C326	1-101-004-00	CERAMIC	0.01MF		50V	D303	8-719-911-19	DIODE 1SS119	
C327	1-101-004-00	CERAMIC	0.01MF		50V	D304	8-719-911-19	DIODE 1SS119	
C331	1-124-963-11	ELECT	33MF	20%	16V	D305	8-719-911-19	DIODE 1SS119	
C332	1-124-119-00	ELECT	330MF	20%	16V	D307	8-719-110-23	DIODE RD11ES-B3	
C333	1-101-005-00	CERAMIC	0.022MF		50V	D309	8-719-911-19	DIODE 1SS119	
C334	1-101-884-00	CERAMIC	56PF	5%	50V				
C335	1-101-006-00	CERAMIC	0.047MF		50V				
C336	1-110-190-81	MYLAR	0.01MF	10%	400V	DL331	1-415-187-13	DELAY LINE	
C337	1-101-004-00	CERAMIC	0.01MF		50V				
C338	1-101-888-00	CERAMIC	68PF	5%	50V				
C339	1-102-735-00	CERAMIC	120PF	5%	50V				
C340	1-102-953-00	CERAMIC	18PF	5%	50V				
C341	1-102-978-00	CERAMIC	220PF	5%	50V	IC301	8-759-923-81	IC TDA4580	
C342	1-102-953-00	CERAMIC	18PF	5%	50V	IC302	8-759-941-98	IC TDA8442	
C343	1-102-735-00	CERAMIC	120PF	5%	50V	IC331	8-759-947-20	IC TDA4555-V8	
C344	1-101-888-00	CERAMIC	68PF	5%	50V				
C345	1-102-978-00	CERAMIC	220PF	5%	50V				
C346	1-102-074-00	CERAMIC	0.001MF	10%	50V				
C347	1-124-499-11	ELECT	1MF	20%	50V	L301	1-410-868-21	INDUCTOR	4.7UH
C349	1-136-173-00	FILM	0.47MF	5%	50V	L302	1-410-868-21	INDUCTOR	4.7UH
C350	1-110-171-81	MYLAR	0.047MF	10%	100V	L303	1-410-469-21	INDUCTOR	8.2UH
C352	1-110-182-81	MYLAR	0.022MF	10%	250V	L304	1-410-470-11	INDUCTOR	10UH
C353	1-102-506-00	CERAMIC	7PF	0.5PF	50V	L331	1-410-469-21	INDUCTOR	8.2UH
C354	1-102-074-00	CERAMIC	0.001MF	10%	50V	L332	1-404-539-11	COIL	
C355	1-102-679-00	CERAMIC	120PF	5%	50V	L333	1-404-554-11	COIL	
C360	1-101-004-00	CERAMIC	0.01MF		50V	L334	1-404-554-11	COIL	
C361	1-101-004-00	CERAMIC	0.01MF		50V	L335	1-404-554-11	COIL	
C364	1-101-361-00	CERAMIC	150PF	5%	50V	L339	1-410-868-21	INDUCTOR	4.7UH
C365	1-124-477-11	ELECT	47MF	20%	16V				
C366	1-124-477-11	ELECT	47MF	20%	16V				

B Z F2

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark				
<u>TRANSISTOR</u>											
Q302	8-729-178-54	TRANSISTOR 2SC2785		R356	1-249-427-11	CARBON	6.8K 5% 1/4W				
Q303	8-729-178-54	TRANSISTOR 2SC2785		R357	1-249-409-11	CARBON	220 5% 1/4W				
Q304	8-729-900-36	TRANSISTOR DTC124ES		R358	1-249-409-11	CARBON	220 5% 1/4W				
Q305	8-729-900-36	TRANSISTOR DTC124ES		R361	1-249-418-11	CARBON	1.2K 5% 1/4W				
Q311	8-729-178-54	TRANSISTOR 2SC2785		R362	1-249-421-11	CARBON	2.2K 5% 1/4W				
Q312	8-729-178-54	TRANSISTOR 2SC2785		R363	1-249-418-11	CARBON	1.2K 5% 1/4W				
Q313	8-729-178-54	TRANSISTOR 2SC2785		R367	1-249-409-11	CARBON	220 5% 1/4W				
Q316	8-729-178-54	TRANSISTOR 2SC2785		R368	1-249-417-11	CARBON	1K 5% 1/4W				
Q334	8-729-178-54	TRANSISTOR 2SC2785		R369	1-249-417-11	CARBON	1K 5% 1/4W				
Q335	8-729-178-54	TRANSISTOR 2SC2785		R370	1-249-418-11	CARBON	1.2K 5% 1/4W				
Q336	8-729-178-54	TRANSISTOR 2SC2785		R371	1-249-417-11	CARBON	1K 5% 1/4W				
Q381	8-729-900-36	TRANSISTOR DTC124ES		R376	1-249-429-11	CARBON	10K 5% 1/4W				
Q382	8-729-178-54	TRANSISTOR 2SC2785		R378	1-249-441-11	CARBON	100K 5% 1/4W				
Q1306	8-729-117-54	TRANSISTOR 2SA1175		R379	1-249-441-11	CARBON	100K 5% 1/4W				
				R380	1-249-426-11	CARBON	5.6K 5% 1/4W				
<u>RESISTOR</u>											
R301	1-249-409-11	CARBON	220 5% 1/4W	R381	1-249-439-11	CARBON	68K 5% 1/4W				
R302	1-249-409-11	CARBON	220 5% 1/4W	R382	1-247-885-00	CARBON	180K 5% 1/4W				
R303	1-249-409-11	CARBON	220 5% 1/4W	R383	1-215-483-00	CARBON	390K 5% 1/4W				
R304	1-249-409-11	CARBON	220 5% 1/4W	R385	1-249-435-11	CARBON	33K 5% 1/4W				
R305	1-249-421-11	CARBON	2.2K 5% 1/4W	R389	1-247-883-00	CARBON	150K 5% 1/4W				
R307	1-249-441-11	CARBON	100K 5% 1/4W	R391	1-249-404-00	CARBON	82 5% 1/4W				
R308	1-249-414-11	CARBON	560 5% 1/4W	R392	1-249-402-11	CARBON	56 5% 1/4W				
R309	1-249-405-11	CARBON	100 5% 1/4W	R393	1-249-402-11	CARBON	56 5% 1/4W				
R310	1-249-405-11	CARBON	100 5% 1/4W	R394	1-249-402-11	CARBON	56 5% 1/4W				
R311	1-249-405-11	CARBON	100 5% 1/4W	R398	1-249-433-11	CARBON	22K 5% 1/4W				
R312	1-249-409-11	CARBON	220 5% 1/4W	R1324	1-249-419-11	CARBON	1.5K 5% 1/4W				
R313	1-249-441-11	CARBON	100K 5% 1/4W	<u>VARIABLE RESISTOR</u>							
R314	1-249-413-11	CARBON	470 5% 1/4W	RV331	1-230-504-11	RES, ADJ, CARBON	220				
R315	1-249-407-11	CARBON	150 5% 1/4W	<u>TRANSFORMER</u>							
R316	1-249-407-11	CARBON	150 5% 1/4W	T331	1-404-584-11	COIL					
R317	1-249-407-11	CARBON	150 5% 1/4W	<u>CRYSTAL</u>							
R318	1-249-429-11	CARBON	10K 5% 1/4W	X332	1-567-131-00	OSCILLATOR, CRYSTAL					
R319	1-249-409-11	CARBON	220 5% 1/4W	<u>YC MODULE</u>							
R320	1-249-417-11	CARBON	1K 5% 1/4W	YCM301	1-235-753-21	YC MODULE					
R321	1-249-421-11	CARBON	2.2K 5% 1/4W	*****							
R322	1-249-420-11	CARBON	1.8K 5% 1/4W	*1-625-208-11	Z BOARD						
R323	1-249-421-11	CARBON	2.2K 5% 1/4W	*****							
R324	1-249-426-11	CARBON	5.6K 5% 1/4W	<u>CONNECTOR</u>							
R325	1-249-429-11	CARBON	10K 5% 1/4W	CNZ43	*1-564-881-11	PLUG, CONNECTOR 4P					
R326	1-249-419-11	CARBON	1.5K 5% 1/4W	CNZ44	*1-564-881-11	PLUG, CONNECTOR 4P					
R327	1-249-427-11	CARBON	6.8K 5% 1/4W	*****							
R328	1-249-397-11	CARBON	22 5% 1/4W	*1-625-200-11	F2 BOARD						
R329	1-249-397-11	CARBON	22 5% 1/4W	*****							
R330	1-249-397-11	CARBON	22 5% 1/4W	<u>CONNECTOR</u>							
R331	1-249-418-11	CARBON	1.2K 5% 1/4W	CNF262	*1-566-664-11	PIN, CONNECTOR 4P					
R332	1-249-401-11	CARBON	47 5% 1/4W	<u>SWITCH</u>							
R333	1-249-412-11	CARBON	390 5% 1/4W	\$1701	\$1-571-410-11	SWITCH, PUSH (AC POWER)(1 KEY)					
R334	1-249-408-11	CARBON	180 5% 1/4W								
R335	1-249-415-11	CARBON	680 5% 1/4W								
R336	1-249-418-11	CARBON	1.2K 5% 1/4W								
R337	1-215-438-00	CARBON	5.1K 5% 1/4W								
R338	1-249-429-11	CARBON	10K 5% 1/4W								
R344	1-249-437-11	CARBON	47K 5% 1/4W								
R346	1-249-419-11	CARBON	1.5K 5% 1/4W								
R347	1-249-429-11	CARBON	10K 5% 1/4W								
R348	1-249-437-11	CARBON	47K 5% 1/4W								
R349	1-249-415-11	CARBON	680 5% 1/4W								
R350	1-249-415-11	CARBON	680 5% 1/4W								
R351	1-249-409-11	CARBON	220 5% 1/4W								
R352	1-247-891-00	CARBON	330K 5% 1/4W								
R353	1-247-891-00	CARBON	330K 5% 1/4W								

The components identified by shading and mark **A** are critical for safety.
Replace only with part number specified.

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark		
*1-625-199-11	F1 BOARD		*****	C111	1-101-003-00	CERAMIC	0.0047MF		
				C112	1-101-003-00	CERAMIC	0.0047MF		
				C113	1-101-003-00	CERAMIC	0.0047MF		
				C114	1-124-963-11	ELECT	33MF 20% 16V		
				C117	1-102-978-00	CERAMIC	220PF 5% 50V		
		<u>CAPACITOR</u>							
C1601A 1-136-518-11	FILM	0.33MF	20%	300V	C118	1-101-880-00	CERAMIC	47PF 5% 50V	
C1602A 1-136-519-11	FILM	0.47MF	20%	300V	C119	1-126-101-11	ELECT	100MF 20% 16V	
C1603A 1-162-578-51	CERAMIC	0.0047MF	20%	400V	C120	1-124-925-11	ELECT	2.2MF 20% 50V	
C1604A 1-162-578-51	CERAMIC	0.0047MF	20%	400V	C121	1-101-003-00	CERAMIC	0.0047MF 50V	
C1605A 1-162-578-51	CERAMIC	0.0047MF	20%	400V	C122	1-101-003-00	CERAMIC	0.0047MF 50V	
C1606A 1-162-578-51	CERAMIC	0.0047MF	20%	400V	C123	1-101-003-00	CERAMIC	0.0047MF 50V	
					C124	1-101-888-00	CERAMIC	68PF 5% 50V	
		<u>CONNECTOR</u>			C125	1-101-888-00	CERAMIC	68PF 5% 50V	
CNF61 *1-566-664-11	PIN, CONNECTOR 4P				C127	1-101-003-00	CERAMIC	0.0047MF 50V	
CNF64 *1-506-349-21	3P PLUG (L)				C128	1-124-963-11	ELECT	33MF 20% 16V	
CNF65 *1-508-765-00	3P PLUG (M)								
CNF66 *1-508-786-00	2P PLUG (M)								
CNF67 *1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)								
CNF162*1-506-347-21	4P PLUG								
					C129	1-101-888-00	CERAMIC	68PF 5% 50V	
		<u>FUSE</u>			C130	1-101-004-00	CERAMIC	0.01MF 50V	
F1601A 1-532-350-11	FUSE, TIME-LAG 4A/250V				C131	1-101-006-00	CERAMIC	0.047MF 50V	
1-533-149-00	HOLDER, FUSE; F1601				C132	1-124-499-11	ELECT	1MF 20% 50V	
					C133	1-101-003-00	CERAMIC	0.0047MF 50V	
					C134	1-124-499-11	ELECT	1MF 20% 50V	
		<u>FUSE</u>			C135	1-101-004-00	CERAMIC	0.01MF 50V	
F1601A 1-532-350-11	FUSE, TIME-LAG 4A/250V				C136	1-101-006-00	CERAMIC	0.047MF 50V	
1-533-149-00	HOLDER, FUSE; F1601				C137	1-102-961-00	CERAMIC	27PF 5% 50V	
					C138	1-124-499-11	ELECT	1MF 20% 50V	
					C139	1-123-875-11	ELECT	10MF 20% 50V	
		<u>FILTER</u>			C140	1-108-614-91	MYLAR	0.001MF 10% 100V	
LF1601A 1-421-866-12	LFT				C141	1-129-794-00	FILM	0.0033MF 2% 100V	
LF1602A 1-421-776-11	LFT				C142	1-102-816-00	CERAMIC	120PF 5% 50V	
					C143	1-101-361-00	CERAMIC	150PF 5% 50V	
					C144	1-124-477-11	ELECT	47MF 20% 16V	
		<u>RESISTOR</u>			C145	1-124-477-11	ELECT	47MF 20% 16V	
R1601A 1-247-879-91	CARBON	100K 5%	1/4W		C146	1-124-477-11	ELECT	47MF 20% 16V	
R1602A 1-244-945-91	CARBON	1M 5%	1/2W		C147	1-124-477-11	ELECT	47MF 20% 16V	
R1603A 1-217-328-11	WIREWOUND	2.7 10%	7W F		C148	1-123-875-11	ELECT	10MF 20% 50V	
R1604A 1-247-879-91	CARBON	100K 5%	1/4W		C149	1-136-153-00	FILM	0.01MF 5% 50V	
R1605A 1-247-289-11	CARBON	8.2M 5%	1W		C150	1-136-153-00	FILM	0.01MF 5% 50V	
R1606A 1-217-777-11	WIREWOUND	100 10%	10W F		C151	1-124-908-11	ELECT	22MF 20% 50V	
					C152	1-124-908-11	ELECT	22MF 20% 50V	
					C153	1-136-165-00	FILM	0.1MF 5% 50V	
		<u>THERMISTOR</u>			C154	1-136-169-00	FILM	0.22MF 5% 50V	
THP601A 1-806-387-11	THERMISTOR (POSITIVE)				C155	1-124-963-11	ELECT	33MF 20% 16V	
					C156	1-136-157-00	FILM	0.022MF 5% 50V	
					C157	1-136-161-00	FILM	0.047MF 5% 50V	
					C158	1-124-963-11	ELECT	33MF 20% 16V	
					C159	1-124-477-11	ELECT	47MF 20% 16V	
*A-1296-317-A	A BOARD, COMPLETE		*****		C161	1-124-477-11	ELECT	47MF 20% 16V	
					C162	1-102-816-00	CERAMIC	120PF 5% 50V	
*4-380-698-01	CASE (MAIN), SHIELD, A1				C163	1-124-927-11	ELECT	4.7MF 20% 50V	
*4-380-699-01	CASE (UPPER LID), SHIELD, A1				C164	1-110-190-81	MYLAR	0.01MF 10% 400V	
*4-382-701-01	CASE (BOTTOM LID), SHIELD, A2				C165	1-130-853-00	FILM	0.0047MF 5% 50V	
		<u>CAPACITOR</u>			C167	1-124-499-11	ELECT	1MF 20% 50V	
C101	1-124-908-11	ELECT	22MF	20%	50V	C168	1-110-179-81	MYLAR	0.22MF 10% 100V
C102	1-126-103-11	ELECT	470MF	20%	16V	C169	1-123-875-11	ELECT	10MF 20% 50V
C103	1-110-175-81	MYLAR	0.1MF	10%	100V	C170	1-101-004-00	CERAMIC	0.01MF 50V
C104	1-110-173-81	MYLAR	0.068MF	10%	100V	C171	1-101-004-00	CERAMIC	0.01MF 50V
C105	1-110-173-81	MYLAR	0.068MF	10%	100V	C174	1-124-499-11	ELECT	1MF 20% 50V
C106	1-101-004-00	CERAMIC	0.01MF		C175	1-102-119-00	CERAMIC	0.0015MF 10% 50V	
C107	1-102-963-00	CERAMIC	33PF	5%	50V	C177	1-101-003-00	CERAMIC	0.0047MF 50V
C108	1-124-963-11	ELECT	33MF	20%	16V	C178	1-124-963-11	ELECT	33MF 20% 16V
C109	1-101-003-00	CERAMIC	0.0047MF		C179	1-124-963-11	ELECT	33MF 20% 16V	
C110	1-124-499-11	ELECT	1MF	20%	50V	C180	1-110-175-81	MYLAR	0.1MF 10% 100V

A

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
		<u>FILTER</u>		R105	1-249-418-11	CARBON	1.2K 5% 1/4W
CD101	1-404-750-11	DISCRIMINATOR, CERAMIC		R106	1-247-891-00	CARBON	330K 5% 1/4W
CD102	1-404-745-11	DISCRIMINATOR, CERAMIC		R107	1-249-421-11	CARBON	2.2K 5% 1/4W
CD103	1-404-746-11	DISCRIMINATOR, CERAMIC		R108	1-249-421-11	CARBON	2.2K 5% 1/4W
CF101	1-404-134-00	TRAP, CERAMIC (5.5MHZ)		R109	1-249-423-11	CARBON	3.3K 5% 1/4W
CF103	1-527-840-00	FILTER, CERAMIC		R110	1-249-412-11	CARBON	390 5% 1/4W
CF104	1-527-839-00	FILTER, CERAMIC		R111	1-249-418-11	CARBON	1.2K 5% 1/4W
CF105	1-527-839-00	FILTER, CERAMIC		R112	1-249-421-11	CARBON	2.2K 5% 1/4W
SWF101	1-404-717-11	FILTER, SURFACE WAVE		R113	1-249-411-11	CARBON	330 5% 1/4W
				R114	1-249-413-11	CARBON	470 5% 1/4W
		<u>CONNECTOR</u>		R115	1-249-413-11	CARBON	470 5% 1/4W
CNA11	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P		R116	1-249-419-11	CARBON	1.5K 5% 1/4W
				R117	1-249-431-11	CARBON	15K 5% 1/4W
				R118	1-249-425-11	CARBON	4.7K 5% 1/4W
				R119	1-249-417-11	CARBON	1K 5% 1/4W
		<u>DIODE</u>		R121	1-249-429-11	CARBON	10K 5% 1/4W
D105	8-719-109-92	DIODE RD6.2ES-B1		R122	1-249-436-11	CARBON	39K 5% 1/4W
D106	8-719-911-19	DIODE 1SS119		R123	1-249-417-11	CARBON	1K 5% 1/4W
D108	8-719-000-06	DIODE MC921		R124	1-249-423-11	CARBON	3.3K 5% 1/4W
				R125	1-249-429-11	CARBON	10K 5% 1/4W
		<u>IC</u>		R126	1-249-436-11	CARBON	39K 5% 1/4W
IC101	8-759-909-08	IC TDA3541		R127	1-249-432-11	CARBON	18K 5% 1/4W
IC102	8-759-941-96	IC TDA2556		R128	1-249-432-11	CARBON	18K 5% 1/4W
IC103	8-759-013-18	IC TDA6600		R129	1-249-429-11	CARBON	10K 5% 1/4W
IC104	8-759-946-99	IC TOA2595-V7		R130	1-249-429-11	CARBON	10K 5% 1/4W
IC105	8-759-003-90	IC TBA129		R132	1-249-414-11	CARBON	560 5% 1/4W
				R133	1-249-425-11	CARBON	4.7K 5% 1/4W
				R134	1-249-414-11	CARBON	560 5% 1/4W
				R135	1-249-419-11	CARBON	1.5K 5% 1/4W
				R136	1-249-414-11	CARBON	560 5% 1/4W
		<u>COIL</u>		R137	1-249-414-11	CARBON	560 5% 1/4W
L101	1-408-226-00	INDUCTOR	82UH	R138	1-249-419-11	CARBON	1.5K 5% 1/4W
L102	1-410-116-11	INDUCTOR	560UH	R140	1-249-441-11	CARBON	100K 5% 1/4W
L103	1-410-467-21	INDUCTOR	5.6UH	R141	1-249-425-11	CARBON	4.7K 5% 1/4W
L104	1-408-411-00	INDUCTOR	15UH	R142	1-249-441-11	CARBON	100K 5% 1/4W
L105	1-410-482-31	INDUCTOR	100UH	R143	1-249-441-11	CARBON	100K 5% 1/4W
L106	1-410-476-11	INDUCTOR	33UH	R144	1-249-422-11	CARBON	2.7K 5% 1/4W
L107	1-410-467-21	INDUCTOR	5.6UH	R146	1-249-424-11	CARBON	3.9K 5% 1/4W
L108	1-410-473-11	INDUCTOR	18UH	R148	1-249-413-11	CARBON	470 5% 1/4W
L109	1-410-473-11	INDUCTOR	18UH	R150	1-249-423-11	CARBON	3.3K 5% 1/4W
L110	1-410-064-11	INDUCTOR	2.7MMH	R151	1-249-423-11	CARBON	3.3K 5% 1/4W
L111	1-410-482-31	INDUCTOR	100UH	R152	1-249-431-11	CARBON	15K 5% 1/4W
L112	1-410-471-11	INDUCTOR	12UH	R153	1-249-416-11	CARBON	820 5% 1/4W
L113	1-410-460-11	INDUCTOR	1.5UH	R154	1-249-441-11	CARBON	100K 5% 1/4W
				R155	1-249-430-11	CARBON	12K 5% 1/4W
		<u>TRANSISTOR</u>		R156	1-247-881-00	CARBON	120K 5% 1/4W
Q101	8-729-900-61	TRANSISTOR DTA114ES		R160	1-249-417-11	CARBON	1K 5% 1/4W
Q102	8-729-900-61	TRANSISTOR DTA114ES		R162	1-249-415-11	CARBON	680 5% 1/4W
Q104	8-729-900-61	TRANSISTOR DTA114ES		R163	1-249-424-11	CARBON	3.9K 5% 1/4W
Q105	8-729-178-54	TRANSISTOR 2SC2785		R165	1-249-423-11	CARBON	3.3K 5% 1/4W
Q106	8-729-178-54	TRANSISTOR 2SC2785		R166	1-249-437-11	CARBON	47K 5% 1/4W
Q107	8-729-117-54	TRANSISTOR 2SA1175		R172	1-249-417-11	CARBON	1K 5% 1/4W
Q108	8-729-900-65	TRANSISTOR DTA144ES		R173	1-249-414-11	CARBON	560 5% 1/4W
Q109	8-729-900-89	TRANSISTOR DTC144ES		R188	1-249-419-11	CARBON	1.5K 5% 1/4W
Q110	8-729-117-54	TRANSISTOR 2SA1175		R189	1-249-419-11	CARBON	1.5K 5% 1/4W
Q111	8-729-900-89	TRANSISTOR DTC144ES					
Q112	8-729-178-54	TRANSISTOR 2SC2785					
Q113	8-729-178-54	TRANSISTOR 2SC2785					
		<u>VARIABLE RESISTOR</u>					
				RV101	1-237-753-11	RES, ADJ, CARBON	47K
				RV102	1-237-751-11	RES, ADJ, CARBON	10K
				RV103	1-237-753-11	RES, ADJ, CARBON	47K
		<u>RESISTOR</u>					
R101	1-249-405-11	CARBON	100 5% 1/4W				
R102	1-249-423-11	CARBON	3.3K 5% 1/4W				
R103	1-249-433-11	CARBON	22K 5% 1/4W				
R104	1-249-429-11	CARBON	10K 5% 1/4W				
		<u>TRANSFORMER</u>					
				T101	1-404-493-00	COIL	

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

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The components identified by shading and mark **▲** are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark				
CAPACITOR											
C001	1-102-973-00	CERAMIC	100PF	5%	50V	C523	1-108-614-91	MYLAR	0.001MF	10%	100V
C003	1-110-175-81	MYLAR	0.1MF	10%	100V	C524	1-106-355-12	MYLAR	0.0033MF	5%	50V
C004	1-123-875-11	ELECT	10MF	20%	50V	C525	1-102-973-00	CERAMIC	100PF	5%	50V
C005	1-102-074-00	CERAMIC	0.001MF	10%	50V	C526	1-102-947-00	CERAMIC	10PF	0.5PF	50V
C007	1-110-171-81	MYLAR	0.047MF	10%	100V	C527	1-110-175-81	MYLAR	0.1MF	10%	100V
C008	1-101-880-00	CERAMIC	47PF	5%	50V	C531	1-124-117-00	ELECT	680MF	10%	25V
C009	1-101-884-00	CERAMIC	56PF	5%	50V	C532	1-124-122-11	ELECT	100MF	20%	50V
C010	1-126-101-11	ELECT	100MF	20%	16V	C533	1-110-173-81	MYLAR	0.068MF	10%	100V
C011	1-101-004-00	CERAMIC	0.01MF		50V	C534	1-124-120-11	ELECT	220MF	20%	16V
C012	1-126-101-11	ELECT	100MF	20%	16V	C536	1-131-365-00	TANTALUM	10MF	10%	16V
C013	1-101-004-00	CERAMIC	0.01MF		50V	C537	1-124-499-11	ELECT	1MF	20%	50V
C014	1-124-463-00	ELECT	0.1MF	20%	50V	C538	1-108-614-91	MYLAR	0.001MF	10%	100V
C015	1-126-101-11	ELECT	100MF	20%	16V	C539	1-102-820-00	CERAMIC	330PF	5%	50V
C016	1-101-004-00	CERAMIC	0.01MF		50V	C591	1-123-875-11	ELECT	10MF	20%	50V
C017	1-123-875-11	ELECT	10MF	20%	50V	C592	1-124-477-11	ELECT	47MF	20%	16V
C018	1-102-980-00	CERAMIC	270PF	5%	50V	C593	1-102-820-00	CERAMIC	330PF	5%	50V
C019	1-110-171-81	MYLAR	0.047MF	10%	100V	C601	1-161-964-00	CERAMIC	0.0047MF		250V
C020	1-102-973-00	CERAMIC	100PF	5%	50V	C602	1-161-964-00	CERAMIC	0.0047MF		250V
C021	1-102-973-00	CERAMIC	100PF	5%	50V	C603	1-161-964-00	CERAMIC	0.0047MF		250V
C022	1-124-477-11	ELECT	47MF	20%	16V	C604	1-125-318-00	ELECT(BLOCK)	220MF	20%	400V
C023	1-124-499-11	ELECT	1MF	20%	50V	C605	1-124-122-11	ELECT	100MF	20%	50V
C024	1-124-499-11	ELECT	1MF	20%	50V	C606	1-110-175-81	MYLAR	0.1MF	10%	100V
C025	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C607	1-130-019-00	FILM	0.0012MF	5%	50V
C026	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C608	1-123-875-11	ELECT	10MF	20%	50V
C027	1-110-175-81	MYLAR	0.1MF	10%	100V	C611	1-124-122-11	ELECT	100MF	20%	50V
C028	1-101-361-00	CERAMIC	150PF	5%	50V	C612	1-162-115-00	CERAMIC	330PF	10%	2KV
C029	1-102-121-00	CERAMIC	0.0022MF	10%	50V	C613	1-136-088-00	FILM	0.0022MF	3%	2KV
C251	1-124-927-11	ELECT	4.7MF	20%	50V	C614	1-102-030-00	CERAMIC	330PF	10%	500V
C252	1-124-927-11	ELECT	4.7MF	20%	50V	C615	1-124-557-11	ELECT	1000MF	20%	25V
C253	1-124-122-11	ELECT	100MF	20%	50V	C616	1-102-030-00	CERAMIC	330PF	10%	500V
C254	1-124-927-11	ELECT	4.7MF	20%	50V	C618	1-124-637-11	ELECT	1000MF	20%	50V
C255	1-124-927-11	ELECT	4.7MF	20%	50V	C619	1-124-556-11	ELECT	2200MF	20%	16V
C256	1-110-175-81	MYLAR	0.1MF	10%	100V	C620	1-102-074-00	CERAMIC	0.001MF	10%	50V
C257	1-101-004-00	CERAMIC	0.01MF		50V	C621	1-124-347-00	ELECT	100MF	20%	160V
C258	1-110-175-81	MYLAR	0.1MF	10%	100V	C622	1-124-556-11	ELECT	2200MF	20%	16V
C260	1-110-175-81	MYLAR	0.1MF	10%	100V	C623	1-124-910-11	ELECT	47MF	20%	50V
C265	1-102-074-00	CERAMIC	0.001MF	10%	50V	C624	1-124-122-11	ELECT	100MF	20%	50V
C266	1-102-074-00	CERAMIC	0.001MF	10%	50V	C625	1-124-360-00	ELECT	1000MF	20%	16V
C401	1-124-477-11	ELECT	47MF	20%	16V	C626	1-123-875-11	ELECT	10MF	20%	50V
C403	1-124-477-11	ELECT	47MF	20%	16V	C627	1-102-074-00	CERAMIC	0.001MF	10%	50V
C501	1-124-927-11	ELECT	4.7MF	20%	50V	C628	1-124-360-00	ELECT	1000MF	20%	16V
C502	1-124-927-11	ELECT	4.7MF	20%	50V	C631	1-124-927-11	ELECT	4.7MF	20%	50V
C503	1-110-192-81	MYLAR	0.015MF	10%	400V	C632	1-102-074-00	CERAMIC	0.001MF	10%	50V
C504	1-101-361-00	CERAMIC	150PF	5%	50V	C633	1-124-927-11	ELECT	4.7MF	20%	50V
C505	1-108-794-91	MYLAR	0.0015MF	5%	50V	C636	1-123-258-91	ELECT	3.3MF	20%	50V
C506	1-110-182-81	MYLAR	0.022MF	10%	250V	C801	1-126-105-11	ELECT	1000MF	20%	35V
C507	1-110-327-81	MYLAR	0.33MF	10%	100V	C802	1-102-030-00	CERAMIC	330PF	10%	500V
C508	1-110-182-81	MYLAR	0.022MF	10%	250V	C804	1-123-948-00	ELECT	22MF	20%	250V
C509	1-110-175-81	MYLAR	0.1MF	10%	100V	C805	1-162-114-00	CERAMIC	0.0047MF		2KV
C510	1-161-959-00	CERAMIC	22PF	10%	500V	C806	1-110-175-81	MYLAR	0.1MF	10%	100V
C511	1-108-620-91	MYLAR	0.0033MF	10%	100V	C807	1-106-395-00	MYLAR	0.15MF	10%	200V
C512	1-110-175-81	MYLAR	0.1MF	10%	100V	C810	1-123-024-00	ELECT	33MF	10%	160V
C513	1-108-614-91	MYLAR	0.001MF	10%	100V	C811	1-136-117-00	FILM	2MF	5%	200V
C514	1-110-179-81	MYLAR	0.22MF	10%	100V	C812	1-123-943-00	ELECT	1MF	20%	250V
C515	1-124-499-11	ELECT	1MF	20%	50V	C813	1-102-212-00	CERAMIC	820PF	10%	500V
C516	1-108-614-91	MYLAR	0.001MF	10%	100V	C814	1-161-731-00	CERAMIC	0.001MF	10%	2KV
C517	1-124-252-00	ELECT	0.33MF	20%	50V	C815	1-136-116-00	FILM	1MF	5%	200V
C518	1-124-902-00	ELECT	0.47MF	20%	50V	C817	1-136-565-11	FILM	0.015MF	3%	1.4KV
C519	1-136-173-00	FILM	0.47MF	5%	50V	C818	1-129-721-00	FILM	0.039MF	10%	630V
C520	1-102-121-00	CERAMIC	0.0022MF	10%	50V	C819	▲ 1-161-731-11	CERAMIC	0.001MF	10%	2KV
C521	1-110-175-81	MYLAR	0.1MF	10%	100V	C820	1-110-189-81	MYLAR	0.0082MF	10%	400V
C522	1-124-122-11	ELECT	100MF	20%	50V	C821	▲ 1-162-116-51	CERAMIC	680PF	10%	2KV
						C822	1-102-114-00	CERAMIC	470PF	10%	50V
						C823	1-110-186-81	MYLAR	0.0047MF	10%	400V
						C824	1-102-212-00	CERAMIC	820PF	10%	500V

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Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description		Remark
C825	1-110-182-81	MYLAR	0.022MF	10%	250V	D613	8-719-924-06	DIODE ERC24-06S		
C826	1-123-875-11	ELECT	10MF	20%	50V	D614	8-719-924-06	DIODE ERC24-06S		
<u>FILTER</u>										
CF001	1-567-686-11	OSCILLATOR, CERAMIC				D615	8-719-109-90	DIODE RD5.6ES-B3		
CF501	1-567-888-11	OSCILLATOR, CERAMIC				D616	8-719-109-93	DIODE RD6.2ES-B2		
<u>CONNECTOR</u>										
CN801	*1-508-765-00	3P PLUG (M)				D617	8-719-109-93	DIODE RD6.2ES-B2		
CND01	*1-564-884-11	PLUG, CONNECTOR 7P				D618	8-719-109-89	DIODE RD5.6ES-B2		
CND02	*1-564-886-11	PLUG, CONNECTOR 9P				D619	8-719-109-89	DIODE RD5.6ES-B2		
CND11	*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P				D620	8-719-000-12	DIODE MC931		
CND12	*1-564-884-21	PLUG, CONNECTOR 7P				D621	8-719-000-12	DIODE MC931		
CND21	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P				D622	8-719-911-19	DIODE ISS119		
CND23	*1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)				D623	8-719-911-19	DIODE ISS119		
CND31	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P				D624	8-719-911-19	DIODE ISS119		
CND41	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)				D627	8-719-911-19	DIODE ISS119		
CND45	*1-564-882-11	PLUG, CONNECTOR 5P				D630	8-719-110-39	DIODE RD15ES-B1		
CND51	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)				D632	8-719-110-16	DIODE RD10ES-B1		
CND64	*1-506-349-21	3P PLUG (L)				D633	8-719-911-19	DIODE ISS119		
CND68	*1-564-879-11	PLUG, CONNECTOR 2P				D801	8-719-924-06	DIODE ERC24-06S		
CND82	*1-508-765-00	3P PLUG (M)				D802	8-719-924-06	DIODE ERC24-06S		
CND83	*1-508-786-00	2P PLUG (M)				D803	8-719-300-65	DIODE ESLF		
CND84	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P				D804	8-719-911-55	DIODE U05G		
CND91	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P				D805	8-719-911-55	DIODE U05G		
CND92	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P				D806	8-719-945-80	DIODE ERC06-15S		
CND94	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)				D807	8-719-945-80	DIODE ERC06-15S		
<u>DIODE</u>										
D001	8-719-911-19	DIODE ISS119				D808	8-719-928-08	DIODE ERD28-08S		
D002	8-719-911-19	DIODE ISS119				D809	8-719-924-06	DIODE ERC24-06S		
D003	8-719-911-19	DIODE ISS119				<u>IC</u>				
D004	8-719-911-19	DIODE ISS119				IC001	8-759-630-06	IC M50436-614SP		
D005	8-719-109-71	DIODE RD3.9ES-B1				IC002	8-759-971-68	IC MB88503H-597G		
D007	8-719-109-89	DIODE RD5.6ES-B2				IC003	8-759-603-41	IC M58655P		
D008	8-719-110-85	DIODE RD36ES-B4				IC004	8-759-157-40	IC UPC574J		
D009	8-719-109-89	DIODE RD5.6ES-B2				IC251	8-759-803-31	IC LA4280		
D011	8-719-911-19	DIODE ISS119				<u>IC</u>				
D012	8-719-911-19	DIODE ISS119				IC401	*4-368-683-01	SPRING; IC251		
D254	8-719-110-14	DIODE RD9.1ES-B3				IC501	8-759-913-13	IC CX20061		
D501	8-719-911-19	DIODE ISS119				IC502	8-759-970-73	IC TEA2028B		
D504	8-719-911-55	DIODE U05G				IC502	8-759-944-57	IC TDA8170		
D506	8-719-000-12	DIODE MC931				IC601	8-759-946-23	IC TEA2164		
D508	8-719-911-19	DIODE ISS119				<u>HEAT SINK, IC; IC601</u>				
D509	8-719-911-19	DIODE ISS119				<u>COIL</u>				
D511	8-719-911-55	DIODE U05G				L001	1-410-475-21	INDUCTOR	27UH	
D512	8-719-911-55	DIODE U05G				L501	1-408-225-00	INDUCTOR	3.3UH	
D513	8-719-109-81	DIODE RD4.7ES-B2				L601	*1-420-872-00	COIL, AIR CORE		
D591	8-719-911-19	DIODE ISS119				L602	1-410-396-41	FERRITE BEAD INDUCTOR		
D592	8-719-911-19	DIODE ISS119				L603	1-410-396-41	FERRITE BEAD INDUCTOR		
D593	8-719-911-19	DIODE ISS119				L605	1-459-442-00	COIL (WITH CORE)		
D601	8-719-946-90	DIODE KBU4JL-608B				L606	1-421-013-00	COIL, (HORIZONTAL CHOKE)	25UH	
D602	8-719-924-06	DIODE ERC24-06S				L607	1-410-482-31	INDUCTOR	100UH	
D603	8-719-911-55	DIODE U05G				L803	1-459-104-00	COIL, DUST CORE		
D604	8-719-911-55	DIODE U05G				L804	1-408-239-00	INDUCTOR	4.7MMH	
D605	8-719-911-55	DIODE U05G				L805	1-459-652-11	HLC		
D606	8-719-924-06	DIODE ERC24-06S				L806	1-459-115-00	COIL, DCC-H		
D607	8-719-924-06	DIODE ERC24-06S				L807	1-408-242-00	INDUCTOR	10MMH	
D608	8-719-925-06	DIODE ERC25-06S				L809	*1-420-872-00	COIL, AIR CORE		
D610	8-719-300-59	DIODE CTU-12S				L810	1-421-982-11	PMC		
D611	8-719-928-08	DIODE ERD28-08S				<u>IC LINK</u>				
D612	8-719-300-59	DIODE CTU-12S				PS601	A 1-532-984-91	LINK, IC		
						PS602	A 1-532-675-91	LINK, IC		

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<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
<u>TRANSISTOR</u>							
Q001	8-729-178-54	TRANSISTOR 2SC2785		R034	1-249-413-11	CARBON	470 5% 1/4W
Q002	8-729-117-54	TRANSISTOR 2SA1175		R035	1-249-431-11	CARBON	15K 5% 1/4W
Q003	8-729-117-54	TRANSISTOR 2SA1175		R036	1-249-421-11	CARBON	2.2K 5% 1/4W
Q004	8-729-117-54	TRANSISTOR 2SA1175		R037	1-249-417-11	CARBON	1K 5% 1/4W
Q252	8-729-900-36	TRANSISTOR DTC124ES		R038	1-249-417-11	CARBON	1K 5% 1/4W
Q501	8-729-117-54	TRANSISTOR 2SA1175		R039	1-249-417-11	CARBON	1K 5% 1/4W
Q502	8-729-117-54	TRANSISTOR 2SA1175		R040	1-249-417-11	CARBON	1K 5% 1/4W
Q503	8-729-178-54	TRANSISTOR 2SC2785		R041	1-249-417-11	CARBON	1K 5% 1/4W
Q505	8-729-177-43	TRANSISTOR 2SD774		R042	1-249-417-11	CARBON	1K 5% 1/4W
Q506	8-729-103-43	TRANSISTOR 2SB734		R043	1-249-417-11	CARBON	1K 5% 1/4W
Q507	8-729-117-54	TRANSISTOR 2SA1175		R044	1-249-429-11	CARBON	10K 5% 1/4W
Q591	8-729-178-54	TRANSISTOR 2SC2785		R045	1-249-417-11	CARBON	1K 5% 1/4W
Q598	8-729-178-54	TRANSISTOR 2SC2785		R046	1-249-429-11	CARBON	10K 5% 1/4W
Q601	8-729-904-32	TRANSISTOR 2SB1185-E		R048	1-249-417-11	CARBON	1K 5% 1/4W
Q602	8-729-209-02	TRANSISTOR 2SD1548-LB		R049	1-249-417-11	CARBON	1K 5% 1/4W
*4-368-683-01	Q602	SPRING; Q602		R050	1-249-433-11	CARBON	22K 5% 1/4W
Q603	8-729-904-32	TRANSISTOR 2SB1185-E		R051	1-249-429-11	CARBON	10K 5% 1/4W
Q604	8-729-308-92	TRANSISTOR 2SD789-03C		R052	1-249-439-11	CARBON	68K 5% 1/4W
Q605	8-729-178-54	TRANSISTOR 2SC2785		R053	1-249-437-11	CARBON	47K 5% 1/4W
Q606	8-729-178-54	TRANSISTOR 2SC2785		R054	1-249-417-11	CARBON	1K 5% 1/4W
Q607	8-729-904-27	TRANSISTOR 2SD1761-E		R056	1-249-440-11	CARBON	82K 5% 1/4W
Q608	8-729-904-27	TRANSISTOR 2SD1761-E		R057	1-249-409-11	CARBON	220 5% 1/4W
*4-368-683-01	Q608	SPRING; Q608		R058	1-249-409-11	CARBON	220 5% 1/4W
Q609	8-729-378-91	TRANSISTOR 2SD789-4		R059	1-249-435-11	CARBON	33K 5% 1/4W
Q801	8-729-178-54	TRANSISTOR 2SC2785		R060	1-249-436-11	CARBON	39K 5% 1/4W
Q804	8-729-304-50	TRANSISTOR 2SD1941-06		R061	1-249-417-11	CARBON	1K 5% 1/4W
*4-368-683-01	Q804	SPRING; Q804		R062	1-249-411-11	CARBON	330 5% 1/4W
Q805	8-729-168-82	TRANSISTOR 2SC2688		R063	1-249-431-11	CARBON	15K 5% 1/4W
				R064	1-249-429-11	CARBON	10K 5% 1/4W
				R067	1-249-413-11	CARBON	470 5% 1/4W
<u>RESISTOR</u>							
R001	1-249-417-11	CARBON	1K 5% 1/4W	R068	1-249-421-11	CARBON	2.2K 5% 1/4W
R002	1-249-417-11	CARBON	1K 5% 1/4W	R069	1-249-423-11	CARBON	3.3K 5% 1/4W
R003	1-249-417-11	CARBON	1K 5% 1/4W	R070	1-249-417-11	CARBON	1K 5% 1/4W
R004	1-249-417-11	CARBON	1K 5% 1/4W	R071	1-249-417-11	CARBON	1K 5% 1/4W
R005	1-249-411-11	CARBON	330 5% 1/4W	R072	1-249-417-11	CARBON	1K 5% 1/4W
R006	1-249-417-11	CARBON	1K 5% 1/4W	R073	1-249-417-11	CARBON	1K 5% 1/4W
R007	1-249-405-11	CARBON	100 5% 1/4W	R074	1-249-417-11	CARBON	1K 5% 1/4W
R008	1-249-417-11	CARBON	1K 5% 1/4W	R075	1-249-417-11	CARBON	1K 5% 1/4W
R009	1-249-417-11	CARBON	1K 5% 1/4W	R077	1-249-413-11	CARBON	470 5% 1/4W
R010	1-249-413-11	CARBON	470 5% 1/4W	R078	1-249-423-11	CARBON	3.3K 5% 1/4W
R011	1-249-417-11	CARBON	1K 5% 1/4W	R079	1-249-435-11	CARBON	33K 5% 1/4W
R012	1-249-417-11	CARBON	1K 5% 1/4W	R080	1-249-429-11	CARBON	10K 5% 1/4W
R013	1-249-417-11	CARBON	1K 5% 1/4W	R081	1-249-441-11	CARBON	100K 5% 1/4W
R014	1-249-417-11	CARBON	1K 5% 1/4W	R083	1-249-429-11	CARBON	10K 5% 1/4W
R016	1-249-429-11	CARBON	10K 5% 1/4W	R084	1-249-413-11	CARBON	470 5% 1/4W
R017	1-249-417-11	CARBON	1K 5% 1/4W	R085	1-249-429-11	CARBON	10K 5% 1/4W
R018	1-249-417-11	CARBON	1K 5% 1/4W	R086	1-249-417-11	CARBON	1K 5% 1/4W
R019	1-249-433-11	CARBON	22K 5% 1/4W	R087	1-249-417-11	CARBON	1K 5% 1/4W
R020	1-249-433-11	CARBON	22K 5% 1/4W	R088	1-249-425-11	CARBON	4.7K 5% 1/4W
R021	1-249-433-11	CARBON	22K 5% 1/4W	R090	1-249-413-11	CARBON	470 5% 1/4W
R022	1-249-433-11	CARBON	22K 5% 1/4W	R091	1-249-409-11	CARBON	220 5% 1/4W
R023	1-249-429-11	CARBON	10K 5% 1/4W	R093	1-249-429-11	CARBON	10K 5% 1/4W
R024	1-249-429-11	CARBON	10K 5% 1/4W	R094	1-249-429-11	CARBON	10K 5% 1/4W
R025	1-249-417-11	CARBON	1K 5% 1/4W	R095	1-249-409-11	CARBON	220 5% 1/4W
R026	1-249-417-11	CARBON	1K 5% 1/4W	R096	1-249-409-11	CARBON	220 5% 1/4W
R027	1-249-417-11	CARBON	1K 5% 1/4W	R097	1-249-429-11	CARBON	10K 5% 1/4W
R028	1-249-417-11	CARBON	1K 5% 1/4W	R098	1-249-429-11	CARBON	10K 5% 1/4W
R029	1-249-417-11	CARBON	1K 5% 1/4W	R099	1-215-900-11	METAL OXIDE	22K 5% 2W F
R030	1-249-425-11	CARBON	4.7K 5% 1/4W	R251	1-249-417-11	CARBON	1K 5% 1/4W
R031	1-249-429-11	CARBON	10K 5% 1/4W	R252	1-249-413-11	CARBON	470 5% 1/4W
R032	1-249-417-11	CARBON	1K 5% 1/4W	R253	1-249-413-11	CARBON	470 5% 1/4W
R033	1-249-413-11	CARBON	470 5% 1/4W	R255	1-249-385-11	CARBON	2.2 5% 1/4W F
				R256	1-249-385-11	CARBON	2.2 5% 1/4W F
				R260	1-249-393-11	CARBON	10 5% 1/4W
				R261	1-249-429-11	CARBON	10K 5% 1/4W

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R262	1-249-413-11	CARBON	470 5% 1/4W	R556	1-249-405-11	CARBON	100 5% 1/4W
R263	1-249-421-11	CARBON	2.2K 5% 1/4W	R557	1-249-425-11	CARBON	4.7K 5% 1/4W
R264	1-249-421-11	CARBON	2.2K 5% 1/4W	R558	1-247-895-00	CARBON	470K 5% 1/4W
R265	1-249-425-11	CARBON	4.7K 5% 1/4W	R559	1-249-427-11	CARBON	6.8K 5% 1/4W
R266	1-249-425-11	CARBON	4.7K 5% 1/4W	R560	1-249-411-11	CARBON	330 5% 1/4W
R401	1-249-434-11	CARBON	27K 5% 1/4W	R591	1-249-427-11	CARBON	6.8K 5% 1/4W
R402	1-249-435-11	CARBON	33K 5% 1/4W	R592	1-249-429-11	CARBON	10K 5% 1/4W
R410	1-249-413-11	CARBON	470 5% 1/4W	R593	1-249-429-11	CARBON	10K 5% 1/4W
R411	1-249-413-11	CARBON	470 5% 1/4W	R594	1-249-424-11	CARBON	3.9K 5% 1/4W
R412	1-249-413-11	CARBON	470 5% 1/4W	R595	1-249-417-11	CARBON	1K 5% 1/4W
R500	1-215-487-00	CARBON	560K 5% 1/4W	R596	1-249-425-11	CARBON	4.7K 5% 1/4W
R501	1-249-413-11	CARBON	470 5% 1/4W	R597	1-249-425-11	CARBON	4.7K 5% 1/4W
R502	1-249-409-11	CARBON	220 5% 1/4W	R598	1-249-405-11	CARBON	100 5% 1/4W
R503	1-249-410-11	CARBON	270 5% 1/4W	R599	1-249-405-11	CARBON	100 5% 1/4W
R504	1-215-427-00	METAL	1.8K 1% 1/6W	R602	1-215-901-00	METAL OXIDE	33K 5% 2W F
R505	1-249-431-11	CARBON	15K 5% 1/4W	R603	1-216-359-00	METAL OXIDE	6.8 5% 1W F
R506	1-249-428-11	CARBON	8.2K 5% 1/4W	R604	1-249-414-11	CARBON	560 5% 1/4W
R507	1-247-891-00	CARBON	330K 5% 1/4W	R605	1-215-469-00	METAL	100K 1% 1/6W
R509	1-249-424-11	CARBON	3.9K 5% 1/4W	R606	1-215-440-00	CARBON	6.2K 5% 1/4W
R510	1-249-426-11	CARBON	5.6K 5% 1/4W	R607	1-249-434-11	CARBON	27K 5% 1/4W
R511	1-249-429-11	CARBON	10K 5% 1/4W	R608	1-215-901-00	METAL OXIDE	33K 5% 2W F
R512	1-247-891-00	CARBON	330K 5% 1/4W	R609	1-249-401-11	CARBON	47 5% 1/4W
R513	1-249-429-11	CARBON	10K 5% 1/4W	R610	1-249-385-11	CARBON	2.2 5% 1/4W F
R514	1-249-409-11	CARBON	220 5% 1/4W	R611	1-249-385-11	CARBON	2.2 5% 1/4W F
R515	1-249-423-11	CARBON	3.3K 5% 1/4W	R612	1-217-193-00	WIREWOUND	0.27 10% 2W F
R516	1-249-408-11	CARBON	180 5% 1/4W	R613	1-249-401-11	CARBON	47 5% 1/4W
R517	1-249-429-11	CARBON	10K 5% 1/4W	R614	1-205-919-11	WIREWOUND	220 10% 1W F
R518	1-249-437-11	CARBON	47K 5% 1/4W	R616	1-249-417-11	CARBON	1K 5% 1/4W
R519	1-249-433-11	CARBON	22K 5% 1/4W	R617	1-249-411-11	CARBON	330 5% 1/4W
R520	1-249-411-11	CARBON	330 5% 1/4W	R618	1-218-022-51	METAL OXIDE	560 5% 1W
R521	1-249-405-11	CARBON	100 5% 1/4W	R619	1-249-429-11	CARBON	10K 5% 1/4W
R522	1-215-469-00	METAL	100K 1% 1/6W	R620	1-249-433-11	CARBON	22K 5% 1/4W
R523	1-249-417-11	CARBON	1K 5% 1/4W	R621	1-249-431-11	CARBON	15K 5% 1/4W
R524	1-249-421-11	CARBON	2.2K 5% 1/4W	R622	1-249-429-11	CARBON	10K 5% 1/4W
R525	1-249-417-11	CARBON	1K 5% 1/4W	R623	1-249-377-11	CARBON	0.47 5% 1/4W F
R526	1-249-409-11	CARBON	220 5% 1/4W F	R624	1-249-411-11	CARBON	330 5% 1/4W
R527	1-249-431-11	CARBON	15K 5% 1/4W	R625	1-218-017-51	METAL OXIDE	220 5% 1W
R528	1-249-408-11	CARBON	180 5% 1/4W	R626	1-249-411-11	CARBON	330 5% 1/4W
R529	1-249-427-11	CARBON	6.8K 5% 1/4W	R627	1-218-019-51	METAL OXIDE	330 5% 1W
R530	1-249-448-11	CARBON	1.2 5% 1/4W F	R628	1-249-393-11	CARBON	10 5% 1/4W
R531	1-247-881-00	CARBON	120K 5% 1/4W	R629	1-249-411-11	CARBON	330 5% 1/4W
R532	1-249-417-11	CARBON	1K 5% 1/4W	R630	1-249-437-11	CARBON	47K 5% 1/4W
R534	1-215-491-00	CARBON	820K 5% 1/4W	R633	1-249-405-11	CARBON	100 5% 1/4W
R535	1-249-749-00	CARBON	2.2M 5% 1/4W	R634	1-218-020-51	METAL OXIDE	390 5% 1W
R536	1-249-749-00	CARBON	2.2M 5% 1/4W	R635	1-249-429-11	CARBON	10K 5% 1/4W
R537	1-249-434-11	CARBON	27K 5% 1/4W	R636	1-249-429-11	CARBON	10K 5% 1/4W
R538	1-247-883-00	CARBON	150K 5% 1/4W	R642	1-216-343-00	METAL OXIDE	0.33 5% 1W F
R539	1-247-883-00	CARBON	150K 5% 1/4W	R643	1-217-192-21	WIREWOUND	0.22 10% 2W F
R540	1-249-399-11	CARBON	33 5% 1/4W	R647	1-216-485-11	METAL OXIDE	5.6K 5% 3W F
R541	1-249-438-11	CARBON	56K 5% 1/4W	R648	1-216-485-11	METAL OXIDE	5.6K 5% 3W F
R542	1-249-425-11	CARBON	4.7K 5% 1/4W	R649	1-249-385-11	CARBON	2.2 5% 1/4W
R543	1-215-088-00	METAL	2.2 5% 1/4W	R650	1-249-417-11	CARBON	1K 5% 1/4W
R544	1-247-745-11	CARBON	330 5% 1/2W	R651	1-249-405-11	CARBON	100 5% 1/4W
R545	1-249-433-11	CARBON	22K 5% 1/4W	R652	1-215-493-00	CARBON	1M 5% 1/4W
R546	1-249-434-11	CARBON	27K 5% 1/4W	R802	1-249-443-11	CARBON	0.47 5% 1/4W F
R547	1-249-423-11	CARBON	3.3K 5% 1/4W	R805	1-249-448-11	CARBON	1.2 5% 1/4W F
R548	1-216-349-00	METAL OXIDE	1 5% 1W F	R806	1-249-439-11	CARBON	68K 5% 1/4W
R549	1-215-890-11	METAL OXIDE	470 5% 2W F	R807	1-218-025-51	METAL OXIDE	1K 5% 1W
R550	1-249-440-11	CARBON	82K 5% 1/4W	R809	1-202-821-11	SOL ID	1.8K 10% 1/2W
R551	1-249-749-00	CARBON	2.2M 5% 1/4W	R810	1-202-818-00	SOL ID	1K 10% 1/2W
R552	1-218-026-51	METAL OXIDE	1.2K 5% 1W	R811	1-215-882-00	METAL OXIDE	22 5% 2W
R553	1-218-025-51	METAL OXIDE	1K 5% 1W	R812	1-244-917-00	CARBON	68K 5% 1/2W
R554	1-249-411-11	CARBON	330 5% 1/4W	R815	1-215-884-11	METAL OXIDE	47 5% 2W F
R555	1-249-749-00	CARBON	2.2M 5% 1/4W	R816	1-218-023-51	METAL OXIDE	680 5% 1W
				R817	1-249-417-11	CARBON	1K 5% 1/4W

D V

The components identified by shading and mark **A** are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R820	1-249-403-11	CARBON	68 5% 1/4W	C19	1-110-171-81	MYLAR	0.047MF 10% 100V
R821	1-247-725-11	CARBON	10K 5% 1/4W	C20	1-102-978-00	CERAMIC	220PF 5% 50V
R822	1-217-778-11	FUSIBLE	1K 5% 1W	C21	1-110-173-81	MYLAR	0.068MF 10% 100V
R825	1-216-345-11	METAL OXIDE	0.47 5% 1W	C24	1-126-101-11	ELECT	100MF 20% 16V
R826	1-249-441-11	CARBON	100K 5% 1/4W	C25	1-124-477-11	ELECT	47MF 20% 16V
R827	1-249-429-11	CARBON	10K 5% 1/4W	C27	1-102-820-00	CERAMIC	330PF 5% 50V
R828	1-249-423-11	CARBON	3.3K 5% 1/4W	C28	1-102-116-00	CERAMIC	680PF 10% 50V
R829	1-249-416-11	CARBON	820 5% 1/4W	C29	1-124-927-11	ELECT	4.7MF 20% 50V
R830	1-249-429-11	CARBON	10K 5% 1/4W	C51	1-110-175-81	MYLAR	0.1MF 10% 100V
R831	1-215-088-00	METAL	2.2 5% 1/4W	C52	1-110-175-81	MYLAR	0.1MF 10% 100V
R1001	1-249-421-11	CARBON	2.2K 5% 1/4W	C53	1-110-175-81	MYLAR	0.1MF 10% 100V
R1002	1-249-423-11	CARBON	3.3K 5% 1/4W	C54	1-110-175-81	MYLAR	0.1MF 10% 100V
R1004	1-249-408-11	CARBON	180 5% 1/4W	C55	1-110-175-81	MYLAR	0.1MF 10% 100V
R1006	1-249-408-11	CARBON	180 5% 1/4W	C56	1-110-175-81	MYLAR	0.1MF 10% 100V
R1007	1-249-408-11	CARBON	180 5% 1/4W	C57	1-102-074-00	CERAMIC	0.001MF 10% 50V
R5501	1-249-429-11	CARBON	10K 5% 1/4W	C58	1-102-074-00	CERAMIC	0.001MF 10% 50V
R5502	1-249-417-11	CARBON	1K 5% 1/4W	C59	1-102-074-00	CERAMIC	0.001MF 10% 50V
R5503	1-249-389-11	CARBON	4.7 5% 1/4W				<u>FILM</u>
R5504	1-215-493-00	CARBON	1M 5% 1/4W				
R5505	1-249-393-11	CARBON	10 5% 1/4W				
<u>VARIABLE RESISTOR</u>							
RV501	1-228-991-00	RES, ADJ, CARBON	2.2K	CP01	1-235-977-11	NETWORK, RES, THICK FILM	
RV502	1-230-630-11	RES, ADJ, CARBON	10K	CP02	1-235-977-11	NETWORK, RES, THICK FILM	
RV601	1-228-990-00	RES, ADJ, CARBON	1K				<u>TRIMMER</u>
<u>SPARK GAP</u>							
SG801	1-519-063-XX	DISCHARGING GAP		CT01	1-141-181-11	CAP, TRIMMER	
<u>TRANSFORMER</u>							
T601	A 1-448-961-11	S.R.T					<u>DIODE</u>
T602	A 1-424-011-11	TRANSFORMER, PULSE		D01	8-719-109-89	DIODE RD5.6ES-B2	
T801	1-437-090-00	HDT		D02	8-719-110-36	DIODE RD13ES-B2	
				D03	8-719-911-19	DIODE 1SS119	
				D04	8-719-109-69	DIODE RD3.6ES-B2	
				D07	8-719-109-96	DIODE RD6.8ES-B1	
				D08	8-719-109-96	DIODE RD6.8ES-B1	
<u>TERMINAL PIN</u>							
TP91	*1-535-084-00	1P TERMINAL PIN		IC01	8-759-972-41	IC MAB8461P-W136	

*A-1347-014-A V BOARD, COMPLETE							

<u>CAPACITOR</u>							
C01	1-126-101-11	ELECT	100MF 20% 16V	L01	1-408-411-00	INDUCTOR	15UH
C02	1-124-120-11	ELECT	220MF 20% 16V	L02	1-410-468-11	INDUCTOR	6.8UH
C03	1-124-119-00	ELECT	330MF 20% 16V	L03	1-410-468-11	INDUCTOR	6.8UH
C04	1-124-477-11	ELECT	47MF 20% 16V	L04	1-410-468-11	INDUCTOR	6.8UH
C05	1-126-101-11	ELECT	100MF 20% 16V	L05	1-410-468-11	INDUCTOR	6.8UH
C06	1-124-120-11	ELECT	220MF 20% 16V	L06	1-410-468-11	INDUCTOR	6.8UH
C07	1-124-499-11	ELECT	1MF 20% 50V				
C08	1-102-951-00	CERAMIC	15PF 5% 50V				
C09	1-102-074-00	CERAMIC	0.001MF 10% 50V	Q01	8-729-904-27	TRANSISTOR 2SD1761-E	
C10	1-102-824-00	CERAMIC	470PF 5% 50V	Q02	8-729-177-43	TRANSISTOR 2SD774	
C11	1-110-182-81	MYLAR	0.022MF 10% 250V	Q03	8-729-900-80	TRANSISTOR DTC114ES	
C12	1-102-980-00	CERAMIC	270PF 5% 50V	Q04	8-729-178-54	TRANSISTOR 2SC2785	
C13	1-102-973-00	CERAMIC	100PF 5% 50V	Q05	8-729-177-43	TRANSISTOR 2SD774	
C14	1-102-951-00	CERAMIC	15PF 5% 50V	Q06	8-729-178-54	TRANSISTOR 2SC2785	
C15	1-102-961-00	CERAMIC	27PF 5% 50V	Q07	8-729-178-54	TRANSISTOR 2SC2785	
C16	1-110-190-81	MYLAR	0.01MF 10% 400V	Q09	8-729-117-54	TRANSISTOR 2SA1175	
C17	1-110-171-81	MYLAR	0.047MF 10% 100V	Q10	8-729-117-54	TRANSISTOR 2SA1175	
C18	1-102-953-00	CERAMIC	18PF 5% 50V	Q11	8-729-117-54	TRANSISTOR 2SA1175	
<u>COIL</u>							
<u>TRANSISTOR</u>							

V J1

Ref.No.	Part No.	Description				Remark	Ref.No.	Part No.	Description				Remark									
<u>RESISTOR</u>																						
R01	1-215-867-00	METAL OXIDE	470	5%	1W	F	C1406	1-124-902-00	ELECT	0.47MF	20%	50V										
R02	1-249-425-11	CARBON	4.7K	5%	1/4W		C1407	1-124-477-11	ELECT	47MF	20%	16V										
R04	1-215-867-00	METAL OXIDE	470	5%	1W	F	C1408	1-126-101-11	ELECT	100MF	20%	16V										
R05	1-215-128-00	METAL	100	5%	1/4W		C1409	1-124-908-11	ELECT	22MF	20%	50V										
R06	1-249-417-11	CARBON	1K	5%	1/4W		C1410	1-123-875-11	ELECT	10MF	20%	50V										
R07	1-249-405-11	CARBON	100	5%	1/4W		C1411	1-123-875-11	ELECT	10MF	20%	50V										
R08	1-249-411-11	CARBON	330	5%	1/4W		C1412	1-124-477-11	ELECT	47MF	20%	16V										
R09	1-249-438-11	CARBON	56K	5%	1/4W		C1413	1-124-477-11	ELECT	47MF	20%	16V										
R13	1-249-405-11	CARBON	100	5%	1/4W		C1414	1-123-875-11	ELECT	10MF	20%	50V										
R14	1-249-405-11	CARBON	100	5%	1/4W		C1415	1-124-902-00	ELECT	0.47MF	20%	50V										
R15	1-215-493-00	CARBON	1M	5%	1/4W		C1416	1-124-902-00	ELECT	0.47MF	20%	50V										
R16	1-249-420-11	CARBON	1.8K	5%	1/4W		C1418	1-102-112-00	CERAMIC	330PF	10%	50V										
R17	1-249-417-11	CARBON	1K	5%	1/4W		C1419	1-102-112-00	CERAMIC	330PF	10%	50V										
R18	1-249-425-11	CARBON	4.7K	5%	1/4W		C1421	1-124-477-11	ELECT	47MF	20%	16V										
R19	1-249-411-11	CARBON	330	5%	1/4W		C1423	1-110-182-81	MYLAR	0.022MF	10%	250V										
R20	1-215-146-00	METAL	560	5%	1/4W		C1424	1-110-182-81	MYLAR	0.022MF	10%	250V										
R27	1-249-399-11	CARBON	33	5%	1/4W		C1425	1-124-902-00	ELECT	0.47MF	20%	50V										
R28	1-249-399-11	CARBON	33	5%	1/4W		C1426	1-124-902-00	ELECT	0.47MF	20%	50V										
R29	1-249-399-11	CARBON	33	5%	1/4W		C1427	1-101-003-00	CERAMIC	0.0047MF	50V											
R30	1-215-130-00	METAL	120	5%	1/4W		C1428	1-101-003-00	CERAMIC	0.0047MF	50V											
R31	1-215-130-00	METAL	120	5%	1/4W		C1429	1-101-003-00	CERAMIC	0.0047MF	50V											
R32	1-215-130-00	METAL	120	5%	1/4W		C1430	1-102-112-00	CERAMIC	330PF	10%	50V										
R33	1-249-404-00	CARBON	82	5%	1/4W		C1431	1-124-902-00	ELECT	0.47MF	20%	50V										
R34	1-249-417-11	CARBON	1K	5%	1/4W		C1432	1-124-902-00	ELECT	0.47MF	20%	50V										
R37	1-249-405-11	CARBON	100	5%	1/4W		C1433	1-126-101-11	ELECT	100MF	20%	16V										
R38	1-249-416-11	CARBON	820	5%	1/4W		C1436	1-102-074-00	CERAMIC	0.001MF	10%	50V										
R40	1-249-425-11	CARBON	4.7K	5%	1/4W		C1437	1-102-074-00	CERAMIC	0.001MF	10%	50V										
R41	1-249-413-11	CARBON	470	5%	1/4W		C1501	1-123-875-11	ELECT	10MF	20%	50V										
R43	1-249-425-11	CARBON	4.7K	5%	1/4W		C1502	1-123-875-11	ELECT	10MF	20%	50V										
R44	1-249-413-11	CARBON	470	5%	1/4W		C1503	1-108-614-91	MYLAR	0.001MF	10%	100V										
R45	1-215-152-00	METAL	1K	5%	1/4W		C1504	1-124-910-11	ELECT	47MF	20%	50V										
R46	1-247-779-00	CARBON	6.8	5%	1/4W		C1505	1-110-171-81	MYLAR	0.047MF	10%	100V										
<u>VARIABLE RESISTOR</u>																						
RV01	1-230-624-51	RES, ADJ, CARBON	220				C1507	1-108-620-91	MYLAR	0.0033MF	10%	100V										
<u>CONNECTOR</u>																						
V1	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P					C1508	1-123-875-11	ELECT	10MF	20%	50V										
V2	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P					C1509	1-124-499-11	ELECT	1MF	20%	50V										
V3	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P					C1511	1-123-875-11	ELECT	10MF	20%	50V										
V4	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)					C1512	1-110-188-81	MYLAR	0.0068MF	10%	400V										
V5	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)					C1513	1-102-963-00	CERAMIC	33PF	5%	50V										
V6	*1-508-784-00	1P PLUG					C1514	1-110-183-81	MYLAR	0.027MF	10%	250V										
<u>CRYSTAL</u>																						
X01	1-567-162-00	OSCILLATOR, CRYSTAL					C1515	1-102-117-00	CERAMIC	820PF	10%	50V										
X02	1-567-495-11	OSCILLATOR, CRYSTAL					<u>CONNECTOR</u>															
X03	1-567-686-11	OSCILLATOR, CERAMIC					CN1401	1-536-996-11	TERMINAL BOARD, INPUT/OUTPUT													

*A-1371-373-A J1 BOARD, COMPLETE														<u>DIODE</u>								
*****														D1401	8-719-110-04	DIODE RD7.5ES-B3						
CAPACITOR														D1403	8-719-110-04	DIODE RD7.5ES-B3						
C1401	1-123-875-11	ELECT	10MF	20%	50V		D1404	8-719-110-04	DIODE RD7.5ES-B3					D1405	8-719-110-04	DIODE RD7.5ES-B3						
C1402	1-126-103-11	ELECT	470MF	20%	16V		D1406	8-719-110-04	DIODE RD7.5ES-B3					D1407	8-719-110-18	DIODE RD10ES-B3						
C1403	1-102-112-00	CERAMIC	330PF	10%	50V		D1408	8-719-110-14	DIODE RD9.1ES-B3					D1409	8-719-110-04	DIODE RD7.5ES-B3						
C1404	1-124-902-00	ELECT	0.47MF	20%	50V		D1410	8-719-110-04	DIODE RD7.5ES-B3					D1415	8-719-110-04	DIODE RD7.5ES-B3						
C1405	1-101-003-00	CERAMIC	0.0047MF																			

J1

J2

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
D1418	8-719-110-04	DIODE RD7.5ES-B3		R1445	1-249-440-11	CARBON	82K 5% 1/4W
D1419	8-719-110-04	DIODE RD7.5ES-B3		R1447	1-249-409-11	CARBON	220 5% 1/4W
D1420	8-719-110-04	DIODE RD7.5ES-B3		R1448	1-249-409-11	CARBON	220 5% 1/4W
D1501	8-719-912-20	DIODE 1SS120		R1450	1-249-413-11	CARBON	470 5% 1/4W
D1502	8-719-911-19	DIODE 1SS119		R1451	1-249-413-11	CARBON	470 5% 1/4W
D1503	8-719-911-19	DIODE 1SS119		R1452	1-249-412-11	CARBON	390 5% 1/4W
D1504	8-719-911-19	DIODE 1SS119		R1453	1-249-412-11	CARBON	390 5% 1/4W
D1505	8-719-000-12	DIODE MC931		R1454	1-247-703-11	METAL	180 5% 1/4W
D1506	8-719-110-85	DIODE RD36ES-B4		R1455	1-247-703-11	METAL	180 5% 1/4W
D1507	8-719-911-19	DIODE 1SS119		R1501	1-249-433-11	CARBON	22K 5% 1/4W
<u>IC</u>				R1502	1-249-434-11	CARBON	27K 5% 1/4W
IC1401	8-752-032-27	IC CXA1114P		R1503	1-247-895-00	CARBON	470K 5% 1/4W
IC1402	8-759-946-32	IC TEA2014A		R1504	1-249-435-11	CARBON	33K 5% 1/4W
IC1501	8-759-942-16	IC TEA2031A		R1505	1-249-433-11	CARBON	22K 5% 1/4W
<u>TRANSISTOR</u>				R1506	1-247-895-00	CARBON	470K 5% 1/4W
Q1401	8-729-117-54	TRANSISTOR 2SA1175		R1509	1-247-887-00	CARBON	220K 5% 1/4W
Q1402	8-729-117-54	TRANSISTOR 2SA1175		R1510	1-249-426-11	CARBON	5.6K 5% 1/4W
<u>RESISTOR</u>				R1511	1-249-417-11	CARBON	1K 5% 1/4W
R1401	1-249-404-00	CARBON	82 5% 1/4W	R1512	1-249-429-11	CARBON	10K 5% 1/4W
R1402	1-247-698-11	CARBON	68 5% 1/4W	R1513	1-249-438-11	CARBON	56K 5% 1/4W
R1403	1-249-437-11	CARBON	47K 5% 1/4W	R1514	1-249-417-11	CARBON	1K 5% 1/4W
R1404	1-249-413-11	CARBON	470 5% 1/4W	R1515	1-215-489-00	CARBON	680K 5% 1/4W
R1405	1-249-429-11	CARBON	10K 5% 1/4W	R1516	1-249-432-11	CARBON	18K 5% 1/4W
R1407	1-247-895-00	CARBON	470K 5% 1/4W	R1517	1-249-410-11	CARBON	270 5% 1/4W
R1408	1-249-434-11	CARBON	27K 5% 1/4W	<u>VARIABLE RESISTOR</u>			
R1409	1-249-413-11	CARBON	470 5% 1/4W	R1518	1-249-429-11	CARBON	10K 5% 1/4W
R1410	1-249-434-11	CARBON	27K 5% 1/4W	R1519	1-247-883-00	CARBON	150K 5% 1/4W
R1411	1-249-413-11	CARBON	470 5% 1/4W	R1520	1-247-895-00	CARBON	470K 5% 1/4W
R1412	1-249-437-11	CARBON	47K 5% 1/4W	R1521	1-249-425-11	CARBON	4.7K 5% 1/4W
R1413	1-247-895-00	CARBON	470K 5% 1/4W	R1556	1-249-426-11	CARBON	5.6K 5% 1/4W
R1414	1-249-437-11	CARBON	47K 5% 1/4W	<u>RESISTOR</u>			
R1415	1-249-434-11	CARBON	27K 5% 1/4W	RV1501	1-228-999-00	RES, ADJ, CARBON	470K
R1416	1-249-434-11	CARBON	27K 5% 1/4W	RV1502	1-228-994-00	RES, ADJ, CARBON	10K
R1417	1-249-404-00	CARBON	82 5% 1/4W	RV1503	1-228-995-00	RES, ADJ, CARBON	22K
R1418	1-247-738-11	CARBON	82 5% 1/2W F	RV1504	1-228-990-00	RES, ADJ, CARBON	1K
R1419	1-249-409-11	CARBON	220 5% 1/4W	RV1505	1-228-999-00	RES, ADJ, CARBON	470K
R1420	1-249-409-11	CARBON	220 5% 1/4W	<u>VARIABLE RESISTOR</u>			
R1422	1-249-417-11	CARBON	1K 5% 1/4W	RV1506	1-228-995-00	RES, ADJ, CARBON	22K
R1423	1-249-434-11	CARBON	27K 5% 1/4W	RV1507	1-230-504-11	RES, ADJ, CARBON	220
R1424	1-249-434-11	CARBON	27K 5% 1/4W	RV1508	1-228-994-00	RES, ADJ, CARBON	10K
R1425	1-249-417-11	CARBON	1K 5% 1/4W	RV1509	1-228-999-00	RES, ADJ, CARBON	470K
R1426	1-249-417-11	CARBON	1K 5% 1/4W	*****			
R1427	1-249-417-11	CARBON	1K 5% 1/4W	<u>RESISTOR</u>			
R1428	1-247-895-00	CARBON	470K 5% 1/4W	C1401	1-126-105-11	ELECT	1000MF 20% 35V
R1429	1-247-895-00	CARBON	470K 5% 1/4W	C1402	1-126-105-11	ELECT	1000MF 20% 35V
R1430	1-249-404-00	CARBON	82 5% 1/4W	<u>CAPACITOR</u>			
R1433	1-249-409-11	CARBON	220 5% 1/4W	<u>CONNECTOR</u>			
R1434	1-249-393-11	CARBON	10 5% 1/4W F	CNJ23	*1-564-893-11	PLUG, CONNECTOR	4P
R1437	1-249-429-11	CARBON	10K 5% 1/4W	CNJ242	*1-564-893-11	PLUG, CONNECTOR	4P
R1440	1-249-415-11	CARBON	680 5% 1/4W	<u>JACK</u>			
R1441	1-249-415-11	CARBON	680 5% 1/4W	J1401	1-507-806-00	JACK	
R1442	1-249-437-11	CARBON	47K 5% 1/4W	<u>RESISTOR</u>			
R1443	1-249-437-11	CARBON	47K 5% 1/4W	R1401	1-215-144-00	METAL	470 5% 1/4W
R1444	1-249-409-11	CARBON	220 5% 1/4W	R1402	1-215-144-00	METAL	470 5% 1/4W

H3 **H4** **KS**

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
*1-625-201-11	H3 BOARD	*****		C207	1-124-927-11	ELECT	4.7MF 20% 50V
		CONNECTOR		C213	1-124-908-11	ELECT	22MF 20% 50V
CNH302*1-564-898-11	PLUG, CONNECTOR 9P			C214	1-110-188-81	MYLAR	0.0068MF 10% 400V
CNH303*1-564-892-41	PLUG, CONNECTOR 3P			C217	1-110-188-81	MYLAR	0.0068MF 10% 400V
		DIODE		C218	1-110-182-81	MYLAR	0.022MF 10% 250V
D1405	8-719-812-41	DIODE TLR124		C219	1-110-182-81	MYLAR	0.022MF 10% 250V
	*4-348-208-00	HOLDER, LED; D1405		C220	1-108-620-91	MYLAR	0.0033MF 10% 100V
		SWITCH		C221	1-108-620-91	MYLAR	0.0033MF 10% 100V
S1401	1-571-085-21	SWITCH, TACTILE		C222	1-110-182-81	MYLAR	0.022MF 10% 250V
S1402	1-571-085-21	SWITCH, TACTILE		C223	1-110-182-81	MYLAR	0.022MF 10% 250V
S1403	1-571-085-21	SWITCH, TACTILE		C224	1-110-190-81	MYLAR	0.01MF 10% 400V
S1404	1-571-085-21	SWITCH, TACTILE		C225	1-136-173-00	FILM	0.47MF 5% 50V
S1405	1-571-085-21	SWITCH, TACTILE		C226	1-136-173-00	FILM	0.47MF 5% 50V
S1406	1-571-085-21	SWITCH, TACTILE		C227	1-110-182-81	MYLAR	0.022MF 10% 250V
S1407	1-571-085-21	SWITCH, TACTILE		C228	1-110-184-81	MYLAR	0.033MF 10% 250V
S1408	1-571-085-21	SWITCH, TACTILE		C229	1-110-192-81	MYLAR	0.015MF 10% 400V
S1409	1-571-085-21	SWITCH, TACTILE		C230	1-110-192-81	MYLAR	0.015MF 10% 400V
S1410	1-571-085-21	SWITCH, TACTILE		C231	1-124-902-00	ELECT	0.47MF 20% 50V
S1411	1-571-085-21	SWITCH, TACTILE		C232	1-123-875-11	ELECT	10MF 20% 50V
S1412	1-571-085-21	SWITCH, TACTILE		C233	1-102-114-00	CERAMIC	470PF 10% 50V
S1414	1-571-085-21	SWITCH, TACTILE		C234	1-102-114-00	CERAMIC	470PF 10% 50V
		CONNECTOR		C235	1-102-114-00	CERAMIC	470PF 10% 50V
*****				C236	1-102-114-00	CERAMIC	470PF 10% 50V
*1-625-202-11	H4 BOARD	*****		C237	1-124-902-00	ELECT	0.47MF 20% 50V
				C238	1-102-978-00	CERAMIC	220PF 5% 50V
*4-387-825-01	HOLDER, LED			C239	1-126-103-11	ELECT	470MF 20% 16V
		DIODE					
		CONNECTOR					
CNH401*1-564-884-11	PLUG, CONNECTOR 7P			CNK21	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
CNH403*1-564-880-31	PLUG, CONNECTOR 3P			CNK25	*1-564-880-31	PLUG, CONNECTOR 3P	
		DIODE					
D1401	8-719-101-08	DIODE SR108D		D201	8-719-110-14	DIODE RD9.1ES-B3	
	*4-387-801-01	HOLDER, LED; D1401		D202	8-719-110-14	DIODE RD9.1ES-B3	
D1402	8-719-101-08	DIODE SR108D		D205	8-719-110-04	DIODE RD7.5ES-B3	
	*4-387-801-01	HOLDER, LED; D1402		D206	8-719-110-04	DIODE RD7.5ES-B3	
D1403	8-719-101-08	DIODE SR108D					
	*4-387-801-01	HOLDER, LED; D1403					
		IC					
IC1401	8-741-138-70	IC BX-1387		IC201	8-759-013-17	IC TDA6200	
		TRANSISTOR					
*1-625-206-11	KS BOARD	*****		Q201	8-729-178-54	TRANSISTOR 2SC2785	
		CAPACITOR		Q202	8-729-178-54	TRANSISTOR 2SC2785	
		RESISTOR					
C202	1-124-902-00	ELECT	0.47MF 20% 50V	R201	1-249-441-11	CARBON	100K 5% 1/4W
C203	1-124-477-11	ELECT	47MF 20% 16V	R202	1-249-425-11	CARBON	4.7K 5% 1/4W
C204	1-124-902-00	ELECT	0.47MF 20% 50V	R203	1-249-441-11	CARBON	100K 5% 1/4W
C205	1-124-927-11	ELECT	4.7MF 20% 50V	R204	1-249-435-11	CARBON	33K 5% 1/4W
C206	1-124-477-11	ELECT	47MF 20% 16V	R205	1-249-435-11	CARBON	33K 5% 1/4W
				R206	1-249-423-11	CARBON	3.3K 5% 1/4W
				R207	1-249-423-11	CARBON	3.3K 5% 1/4W
				R208	1-249-431-11	CARBON	15K 5% 1/4W
				R209	1-249-433-11	CARBON	22K 5% 1/4W
				R210	1-249-431-11	CARBON	15K 5% 1/4W
				R211	1-249-441-11	CARBON	100K 5% 1/4W
				R212	1-249-433-11	CARBON	22K 5% 1/4W
				R213	1-249-431-11	CARBON	15K 5% 1/4W
				R214	1-249-417-11	CARBON	1K 5% 1/4W
				R215	1-249-433-11	CARBON	22K 5% 1/4W

KS

The components identified by shading and mark **▲** are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description	Remark
R216	1-249-433-11	CARBON	22K 5% 1/4W
R217	1-249-431-11	CARBON	15K 5% 1/4W
R218	1-249-417-11	CARBON	1K 5% 1/4W
R219	1-249-429-11	CARBON	10K 5% 1/4W
R220	1-249-425-11	CARBON	4.7K 5% 1/4W
R221	1-249-417-11	CARBON	1K 5% 1/4W
R222	1-249-417-11	CARBON	1K 5% 1/4W
R223	1-249-413-11	CARBON	470 5% 1/4W
R224	1-249-413-11	CARBON	470 5% 1/4W
R225	1-249-417-11	CARBON	1K 5% 1/4W
R226	1-249-417-11	CARBON	1K 5% 1/4W
R227	1-249-417-11	CARBON	1K 5% 1/4W
R228	1-249-417-11	CARBON	1K 5% 1/4W
R229	1-249-441-11	CARBON	100K 5% 1/4W
R230	1-249-441-11	CARBON	100K 5% 1/4W

MISCELLANEOUS

▲ 1-451-311-21 DEFLECTION YOKE (SY-153E)

- 1-452-032-00 MAGNET, DISK; 10MM Ø
- 1-452-094-00 MAGNET, ROTATABLE DISK; 15MM Ø
- 1-503-642-21 SPEAKER
- 1-543-179-00 CORE, RING

▲ 1-559-346-11 CORD, POWER (WITH CONNECTOR)

- L901 **▲ 1-426-325-11 COIL, DEMAGNETIZATION**
- T802 **▲ 1-439-416-11 TRANSFORMER ASSY, FLYBACK**
- V901 **▲ 8-733-224-05 PICTURE TUBE (A59JWC60X)**

ACCESSORIES AND PACKING MATERIALS

Part No.	Description	Remark
A-1470-844-A	COMMANDER ASSY (RM-673)	
*4-381-155-01	BAG, PROTECTION	
*4-387-845-01	CUSHION (UPPER) (ASSY)	
*4-387-846-01	CUSHION (LOWER) (ASSY)	
*4-387-847-01	INDIVIDUAL CARTON	
4-482-524-71	MANUAL, INSTRUCTION	